May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements. OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)

OMEGA 28

LAST ACCESSED: 25/09/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

		Other Limits
CAS NO	TLV	Recommended
79070-11-4	N.E.	-
7632-00-0	_	* *
	79070-11-4	79070-11-4 N.E.

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	***	Specific Gravity (H20 = 1)	1.92
Vapor Pressure (-)	N.A.	Melting Point	>260C
Vapor Density (AIR = 1)	>1	Evaporation Rate (ether=1)	<1

Solubility in Water Insoluble

Appearance and Odor Smooth, off-white lubricating grease.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None	-	N.A.	N.A.

Extinguishing Media

CO2, foam, dry chemical, water spray.

Special Fire Fighting Procedures

Avoid smoke inhalation. Water or foam may cause frothing.

Unusual Fire and Explosion Hazards

N.A.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	Pyrolysis.

Incompatibility (Materials to Avoid)

Strong oxidizing materials.

Hazardous Decomposition or Products

Carbonyl fluoride, hydrofluoric acid gas, perfluorocarbon olefins, CO, and small amounts of other toxic fumes.

Hazardous	Conditions to Avoid
Polymerization	Pyrolysis.
Will Not Occur	

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients.

Effects of Overexposure

There is no experience with overexposure. Prolonged or repeated contact with the eyes or contact may cause irritation. Polytetrafluoroethylene (PTFE), when thermally decomposed, may cause polymer fume fever and flu-like symptoms. Inhalation of vapors from material at high temperatures (over 250C) must be avoided. Contamination of cigarettes or other tobacco products must be avoided.

Emergency & First Aid Procedures

Eye contact: Wash thoroughly; contact physician if irritation persists. Skin contact: Wash with soap and water. Inhalation: Move to fresh air and refer to a physician for treatment.

SECTION VI - HEALTH HAZARD DATA

Steps to Be Taken In Case Material Is Released or Spilt

Wipe or scrape up spillage and place it in a container for disposal. Wash walking surfaces thoroughly with detergent and water to reduce slipping hazard.

Waste Disposal Method

Many states classify waste lubricants as "hazardous" which means disposal only by a licensed firm. Consult local, State and Federal regulations applicable to your area.

Precautions to Be Taken in Handling and Storing

Exercise ordinary care in handling chemicals.

Other Precautions

Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before smoking. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic skin reactions to otherwise innocuous industrial chemicals and raw materials.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Not required unless mists, smokes or vapors are produced at high temperatures.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

N.A.

Work/Hygienic Practices

N.A.

Remarks

*Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolized. Decomposition is initiated above 300C.

**LD50 (oral, rats): 120mg/kg

***Not volatile, though may contain trace quantities of trichlorotrifluoroethane.

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OMEGA 33	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Carbon black as thickener	1333-86-4	3.5mg/m3	_
Molybdenum disulfide	1317-33-5	15.0mg/m 3	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	* * *	Specific Gravity (H20 = 1)	1.02
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Black semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
316C	N.A.	-	-

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

 ${\tt Hazardous\ Decomposition\ or\ Products}$

By open flame: Carbon monoxide, carbon dioxide.

Hazardous Conditions to Avoid

Polymerization			
Will Not Occur	None		

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves	•	Eye Protection	
Rubber or plastic	oil resistant gloves.	Safety goggle	es and full face shield.
Other Destartion Class	1. J		

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

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OMEGA 35

LAST ACCESSED: 23/07/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Polyethylene glycol	25322-68-3	_	_
Graphite	7440-44-0	_	*

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	1.34
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (N.A.)	N.A

Solubility in Water Negligible.

Appearance and Odor Dark grey semi-solid grease.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. above 232C	N.A.	_	-

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

SpecialFire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agents such as: Hydrogen peroxide, chromic acid, bromine

Hazardous Decomposition or Products

Carbon monoxide, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients.

Effects of Overexposure

May cause skin and eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 minutes. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulation.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed or food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Not required.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves	•	Eye Protection	

Other Protective Clothing or Equipment

Rubber or plastic oil resistant gloves.

None required.

Work/Hygienic Practices

N.A.

Remarks

* PEL TWA 3.5mg/m3

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Safety goggles and full face shield.

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OMEGA 51	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION				
Hazardous Components				Other Limits
(Specific Chemical Identity: Common Name(s))		CAS NO	TLV	Recommended
Highly refined mineral oils**		64742-65-0	*5mg/m3	-
Lithium 12-OH stearate as thickener		N.A.	N.A.	-
Polyethylene		9002-88-4	N.A.	-
Molybdenum disulfide		1317-33-5	15.0mg/m 3	-
SECTION II - PHYSICAL CI	HARACTERISTICS			
Boiling Point	N.A.	Specific Gravity	(H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point		N.A.

Vapor Pressure (N.A.) N.A.	Melting Point	N.A.
Vapor Density (AIR = 1) N.A.	Evaporation Rate (N.A.)	N.A.

Solubility in Water Negligible

Appearance and Odor Moly grey semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 221C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide.

Hazardous	Conditions	to	Avoid
Polymerization			

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 57 #1

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64742-65-0	*5mg/m3	_
Aluminium complex as thickener	54326-11-3	_	-
Highly refined mineral oils**	64741-96-4	*5mg/m3	-

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.896
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Blue semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. above 200C	N.A.	_	_

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self contained breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

CO and CO2 from burning; oxides of sulfur; SO2/H2S depending upon decomposition conditions

4-4-4-4	
Will Not Occur	None
Polymerization	
Hazardous	Conditions to Avoid

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin & eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes. Call a physician immediately. Skin Contact: Remove excess with cloth or paper and wash thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protection	

Rubber or plastic oil resistant gloves. Other Protective Clothing or Equipment

None required.

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Safety goggles and full face shield.

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64742-65-0	*5mg/m3	_
Aluminium complex as thickener	54326-11-3	_	_
Highly refined mineral oils **	64741-96-4	*5mg/m3	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Blue semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. above 180C	N.A.	_	_

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self contained breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

CO and CO2 from burning; oxides of sulfur; zinc oxide; SO2/H2S depending upon decomposition conditions

Hazardous	Conditions	to	Avoid
Polymerization			

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin & eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes. Call a physician immediately. Skin Contact: Remove excess with cloth or paper and wash thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protection	
Rubber or plastic	oil resistant gloves.	Safety goggle	es and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 58

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
White mineral oil	8042-47-5	5mg/m3 *	_
Aluminium complex as thickener	54326-11-3	_	_
Butylated hydroxyl toluene	128-37-0	10 mg/m3	_
Zinc oxide	1314-13-2	5 mg/m3(TWA)	-

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor White semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. above 149C	-	N.A.	N.A.

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self contained breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

Carbon monoxide and carbon dioxide from burning. Zinc oxide.

Hazardous Conditions to Avoid

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes. Call a physician immediately. Skin contact: Remove excess with cloth or paper and wash thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed in a large amount: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

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OMEGA 59	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64741-96-4	*5mg/m3	_
Bentonite as thickener	68953-58-2	_	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Gold sparkle semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 249C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hours exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. | Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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18/F, GUARDIAN HOUSE, HONG KONG.

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OMEGA 64	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64741-96-4	*5mg/m3	-
Lithium 12-OH Stearate as thickener	7620-77-1	-	-
Graphite	7440-44-0	-	* * *

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Dark brown semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 185C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand. earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Safety goggles and full face shield.

Rubber or plastic oil resistant gloves.

None required

Other Protective Clothing or Equipment

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346

*** PEL TWA 3.5mg/m3

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64741-96-4	* 5mg/m3	_
Lithium 12-OH Stearate as thickener	7620-77-1	_	_
Graphite	7440-44-0	-	* * *

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Dark brown semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. >180C	N.A.	_	_

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self contained breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

CO and CO2 from burning; oxides of sulfur; oxides of barium; zinc

oxide; SO2/H2S depending upon decomposition conditions

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin Contact: Remove excess with cloth or paper and wash area thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed: Contact a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

	N.A.		N.A.	
Protective Gloves		Eye Protection		
Rubber or plastic	oil resistant gloves.	Safety goggle	es and full	face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.
- *** PEL TWA 3.5mg/m3

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LAST ACCESSED: 17/07/1997

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils ** 64741-97-5 *5mg/m3 Calcium 12-OH stearate as thickener 3159-62-4 Barium sulfonate 61790-48-5 0.5(Ba)mg/m3SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (N.A.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (N.A. N.A. Solubility in Water Negligible Appearance and Odor Blue semi-solid grease, mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL C.O.C. 149C N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke

SECTION IV - REACT	TIVITY DATA
Stability	Conditions to Avoid

Stable None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide.

Hazardous Conditions to Avoid
Polymerization
Will Not Occur None

SECTION V - HEALTH HAZARD DATA

threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a

physician immediately.

Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 71	

OMEGA 71						
SECTION I - HAZARDOUS IN	GREDIENTS/I	DENTI	TY INFORMATION	ON		
Hazardous Components					0	ther Limits
(Specific Chemical Identity: Common Name(s))			CAS NO	TLV	R	ecommended
Highly refined mineral o	oils**		64741-96-4	*5mg/m3	-	
Bentonite as thickener			68953-58-2	-	_	
SECTION II - PHYSICAL CH	HARACTERISTI	CS				
Boiling Point	N.A.	S	pecific Gravity	(H20 = 1)	0 .	. 9
Vapor Pressure (N.A.)	N.A.	М	elting Point		N.	.A.
Vapor Density (AIR = 1)	N.A.	E	vaporation Rate	()	N.	.A.
Solubility in Water Negligi	.ble					
Appearance and Odor Gold sp	arkle semi-	solid	grease, mine	eral oil odor	: .	
SECTION III - FIRE AND	EXPLOSION H	AZARD	DATA			
Flash Point (Method Used)		Flamma	able Limits	LEL		UEL
C.O.C. 249C		N.A.		_		-
Extinguishing Media						
Dry chemical, car	bon dioxide,	, foam	ı, sand.			
Special Fire Fighting Procedure	es					
Fire fighters sho		appro	oved self con	tained breat	hing	apparatus.
Unusual Fire and Explosion H	<i>lazards</i>					
Dense smoke						
SECTION IV - REACTIVITY	DATA					
Stability Condit.	ions to Avoid					
Stable	None					
Incompatibility (Materials to	o Avoid)					
Hydrogen peroxide	, chromic ad	cid, k	oromine.			
Hazardous Decomposition or Pr	roducts					
By open flame: Ca.	rbon monoxio	de, ca	arbon dioxide	2.		
	onditions to A	void				
Polymerization						
Will Not Occur	None					
SECTION V - HEALTH HAZAR	RD DATA					

DECTION V HEADIN HADARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
_	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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SECTION V - HEALTH HAZARD DATA

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OMEGA 73

LAST ACCESSED: 22/10/1996

OMEGA 73						
SECTION I - HAZARDOU	S INGREDIENTS/	DEN:	TITY INFORMATIO	ON		
Hazardous Components					0:	ther Limits
(Specific Chemical Ident	ity: Common Name(s))	CAS NO	TLV	Re	ecommended
Highly refined miner	al oils**		64741-96-4	*5mg/m3	-	
Carbon black as thic	ckener		1333-86-4	3.5 mg/m3	_	
Molybdenum disulfide	2		1317-33-5	15 mg/m3	_	
Graphite			7440-44-0	_	*	* *
SECTION II - PHYSICA	L CHARACTERIST	ICS				
Boiling Point	N.A.		Specific Gravity	(H20 = 1)	1.	. 0
Vapor Pressure (N.A.)	N.A.		Melting Point		N.	Α.
Vapor Density (AIR = 1)	N.A.		Evaporation Rate	()	N.	Α.
Solubility in Water Neg	ligible		•			
Appearance and Odor Bla	ck semi-solid g	reas	se, mineral oil	odor.		
SECTION III - FIRE	AND EXPLOSION H	AZAR	D DATA			
Flash Point (Method Use	ed)	Fla	mmable Limits	LEL		UEL
C.O.C. 227C		N.A	N.A			_
Extinguishing Media						
Dry chemical,	carbon dioxide	, fo	am, sand.			
Special Fire Fighting F	rocedures					
	should wear an	app	roved self con	tained breath	ning	apparatus.
Unusual Fire and Explos	ion Hazards					
Dense smoke						
SECTION IV - REACTI	VITY DATA					
•	onditions to Avoid					
Stable	None					
Incompatibility (Materia						
	xide, chromic a	cid,	bromine.			
Hazardous Decomposition		,	,			
By open flame	Conditions to A			•		
Polymerization	Conditions to A	avoia				
Will Not Occur	None					
WIII NOU OCCUI	Notie					

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a Skin contact: Wash thoroughly with physician immediately. water.Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust			Special
	N.A.			N.A.
	Mechanical (General)			Other
	N.A.			N.A.
Protective Gloves	<u>.</u>	Eye Pı	cotection	

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extracts as measured by IP 346.
- *** PEL TWA 3.5mg/m3

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral oils**	64741-96-4	*5mg/m3	_
Lithium 12-OH stearate as thickener	7620-77-1	_	_
Highly refined mineral oils**	64742-65-0	*5mg/m3	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Red semi-solid grease, mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. above 150C	N.A.	_	_

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear as approved self contained breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

CO, CO2 & oxides of P from burning; oxides of S&N; ZnO; HCl on burning or decomposition; Chlorocarbons; SO2/H2S depend on decomposition conditions

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin & eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15.

minutes. Call a physician immediately. Skin Contact: Remove excess with cloth or paper and wash thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed; Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant goggles. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
White mineral oil	8042-47-5	*5ma/m3	

(Specific chemical facility: common Name(S))	C115 110	120	песопшенаса
White mineral oil	8042-47-5	*5mg/m3	_
Aluminium complex as thickener	54326-11-3	_	_
Butylated hydroxyl toluene	128-37-0	10 mg/m3	_
Zinc oxide	1314-13-2	5mg/m3	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor White semi-solid grease, mineral oil odor.

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 170C	N.A.	_	-

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide,

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before reuse. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

* TLV for mineral oil mist

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 24/07/1996
OMEGA 85	

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended

Highly refined mineral oils ** 64742-52-5 * 5mg/m3 - Polyurea thickener - - - Highly refined mineral oils** 64742-65-0 * 5mg/m3 -

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.944
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Royal blue semi-solid grease with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. > 235C	N.A.	_	-

Extinguishing Media

Dry chemical, waterfog, carbon dioxide, foam, sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self-contained breathing apparatus.

Do not use water except as fog.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

bility	Conditions to Avoid
able	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

CO, CO2 and oxides of phosphorous from burning; oxides of nitrogen and sulfur; SO2/H2S depend on decomposition conditions; oxides of calcium

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin Contact: Remove excess with cloth or paper and wash area thoroughly with soap and water. For high pressure injection under the skin see a physician immediately. Inhalation: Remove exposed person to fresh air if discomfort is experienced while handling hot product. If Swallowed: Contact a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of mixture into another container. Absorb residue with an nert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal Method

Dispose of in accordance with all applicable federal, state and local vegulations.

Precautions to Be Taken in Handling and Storing

Keep container closed until ready for use. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. | Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 72623-85-9 *5mg/m3 Calcium type thickener 61788-86-4 Lithium 12-OH stearate as thickener 7620-77-1 SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. >1 Vapor Pressure (N.A.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate () N.A. N.A. Solubility in Water Negligible Appearance and Odor Yellow amber semi-solid grease, mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. C.O.C. above 190C N.A. Extinguishing Media Dry chemical, waterfog, carbon dioxide, foam, sand/earth. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Strong oxidizing agents: hydrogen peroxide, chromic acid, bromine. Hazardous Decomposition or Products By open flame: carbon monoxide, carbon dioxide. Conditions to Avoid Hazardous Polymerization N.A. Will Not Occur

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves	•	Eye Protection	

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 99

LAST ACCESSED: 19/04/1999

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components					Other Limits
(Specific Chemical Name(s))	Identity:	Common	CAS NO	TLV	Recommended
Mineral spirits##			8032-32-4	5mg/m3(mist)	*
Zinc oxide			1314-13-2	_	* *
Aluminium stearate			637-12-7	_	-
Graphite			7782-42-5	2mg/m3(dust)	-
Highly refined mineral	oils***		64742-65-0	5mg/m3(mist)	
Aluminium			7429-90-5	10mg/m3	-
Copper			7440-50-8	-	#

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	1.311
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and Odor Silver-bronze color with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 213C	N.A.	_	-

Extinguishing Media

Dry chemical or carbon dioxide. Do not use water.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong acids, bases, oxidizing agents, chlorinated hydrocarbons & halognate

Hazardous Decomposition or Products

* * * *

Hazardous	Conditions to Avoid
${ t Polymerization}$	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Inhalation: Inhalation of solvent vapors can cause irritation of the respiratory tract. High concentrations of oil mists, sprays or vapors can cause chemical pneumonitis. Inhalation of metal dusts can cause pneumonconiosis of metal-fume fever - however, this is judged unlikely considering the form of the product.

Skin: May cause irritation, drying and cracking.

Eyes: Causes irritation.

Ingestion: May cause irritation and burning pain in mouth and stomach, thirst, nausea, vomiting, diarrhea, with possible collapse if large amounts ingested.

Irritancy of material: A moderate skin, eye and mucus membrane irritant.

Sensitization to material: Contains copper, a potential skin sensitizer.

Emergency & First Aid Procedures

Inhalation: Remove victim to fresh air. If breathing difficult, administer oxygen. If breathing stopped, administer artificial respiration. Call a physician for anything more than slight exposure.

Skin: Wash affected area with soap and water thoroughly. Consult a physician if irritation persists.

Eyes: Flush with running water for 15 minutes, occasionally lifting lids.Consult a physician.

Ingestion: Do not induce vomiting. Rinse out mouth with water. Have victim drink water or milk. Activated charcoal tablets may be administered. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Contain spill. Absorb with inert absorbent such as a dry clay, sand, diatomaceous earth, or commercial sorbents. Scoop up used absorbents and rags into drums for disposal. Do not wash into sanitary sewer.

Waste Disposal Method

Comply with all federal, provincial and local regulations regarding disposal.

Precautions to Be Taken in Handling and Storing

Handling procedures and equipment: Avoid skin or eye contact. Wash hands thoroughly after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.

Storage requirements: Store in a cool, dry area away from incompatibles. Keep away from heat, sparks and flame.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Eye Protection

Safety goggles and full face shields.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * LC50 (inhalation, rat) = 3400 ppm/4H, contains less than 0.1% w/w benzene
- ** LD50 (Oral, rat) = 7950 mg/kg
- # TDLo (Oral, rat) = 152 mg/kg
- ## Contains less than 0.1% w/w benzene
- *** Contains less than 3% DMSO extract as measured by IP 346.
- **** Toxic compounds may form on thermal decomposition. Hazardous combustion products: carbon monoxide, carbon dioxide, oxides of sulfur and nitrogen, toxic metal fumes and oxides. Potentially explosive hydrogen and other dangerous gases may be formed on contact with strong acids.

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IDENTITY(As Used on Label and List)

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OMEGA 99N

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	•	•	Other Limits
(Specific Chemical Identity : Common Name (s))	CAS NO.	TLV	Recommended
Aluminium	7429-90-5	10mg/m3	-
Aluminium stearate	637-12-7	_	_
Mineral spirits#	8032-32-4	5mg/m3 (mist)	*
Zinc oxide	1314-13-2	_	**
Graphite	7782-42-5	2mg/m3 (dust)	_
Highly refined mineral oils##	64742-65-0	5mg/m3 (mist)	-
Nickel	7440-02-0	1mg/m3	* * *

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	1.329
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (N.A.)	N.A.

Solubility in Water Negligible

Appearance and Odor Silver-grey paste with faint sweet odor

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
C.O.C. 193C	N.A.	_	_

Extinguishing Media

Dry chemical or carbon dioxide. Do not use water.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke. Nickel fume vapor.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong acids, bases, oxidizing agents, chlorinated hydrocarbon&halogenate

Hazardous Decomposition or Products

Hazardous	Conditions to Avoid
Polymerization	None
Will Not Occur	

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure. See SECTION I hazardous ingredients.

Effects of Overexposure

Inhalation: Inhalation of solvent vapors can cause irritation of the respiratory tract. High concentrations of oils, mists, sprays or vapors can Cause deuval Pneumonitis. Inhalation of metal duress Can Cause Pneumoconiosis of metal June fouahomeun This is adjudged unlikely.

considering the form of the product.

Skin: May cause irritation, drying and cracking.

Eyes: Causes irritation.

Ingestion: May cause irritation and burning pain in mouth and stomach, thirst, nausea, vomiting, diarrhea, with possible collapse if large amounts ingested. Aspiration of material upon vomiting may cause chemical pneumonitis.

Emergency & First Aid Procedures

Inhalation: Remove victim to fresh air. If breathing difficult, administer oxygen. If breathing stopped, administer artificial respiration. Call a physician for anything more than slight exposure. Skin: Wash affected area with soap and water thoroughly. Consult a physician if irritation persists. Eyes: Flush with running water for 15 minutes, occasionally lifting lids. Consult a physician. Ingestion: Do not induce vomiting. Rinse out mouth with water. Have victim drink water or milk. Activated charcoal tablets may be administered. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Contain spill. Absorb with inert absorbent such as a dry clay, sand, diatomaceous earth, or commercial sorbents. Scoop up used absorbents and rags into drums for disposal. Do not wash into sanitary sewer.

Waste Disposal Method

Comply with all federal, provincial and local regulations regarding disposal.

Precautions to Be Taken in Handling and Storing

Handling procedures and equipment: Avoid skin or eye contact. Wash thoroughly after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.

Storage requirements: Store in a cool, dry area away from incompatibles. Keep away from heat, sparks and flame.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protection	

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

Oil resistant apron or coverall and impervious footwear.

Work/Hygienic Practices

N.A.

Remarks

- * LC50 (inhalation, rat) = 3400 ppm/4H
- ** LD50 (Oral, rat) = 7950 mg/kg
- *** LD50 (Oral, rat) = >5000 mg/kg
- **** Toxic compounds may form on thermal decomposition. Hazardous combustion products: toxic nickel carbonyl may form during fires; also, carbon monoxide, carbon dioxide, oxides of sulfur and nitrogen, toxic metal fumes and oxides.
- Contains less than 0.1% W/W benzene.
- ## Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

LAST ACCESSED : 25/07/1996

OMEGA EBONYFINE

SECTION I -	HAZARDOIIG	INGREDIENTS	/TDFWTTTV	TNEODMATION
OPCITON T -	падакисто		/ TDGNITII	TIME OWNER TON

Hazardous Components		-		Other Limits
(Specific Chemical Identity : Common Name (s))		CAS NO.	TLV	Recommended
Highly refined Mineral	Oils**	64742-65-0	5mg/m3 *	_
Molybdenum disulfide		1317-33-5	15.0mg/m 3	-
SECTION II - PHYSICAL				
Boiling PointC	N.A.	Specific Gravi	ty (H20 = 1)	0.9
Vapor Pressure (mm hg)	N.A.	Melting Point		N.A.
vpor Density (AIR = 1)	N.A.	Evaporation Ra	te (-)	N.A.

Solubility in Water Negligible

Appearance and odor Black colored liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Above 100C	N.A.	_	_

Extinguishing Media

Drychemical carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	N.A.

Incompatibility (Materials to Avoid)

Extreme Heat - Strong oxidizing agents.

Hazardous Decomposition or Products

By open flame: Dense smoke, carbon dioxide, carbon monoxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	N.A.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Mild skin irritation.

Emergency & First Aid Procedures

Eyes: Flush with water for 15 mintues. skin contact: Wash with water.

Inhalation: N.A. If swallowed: Do not induce vomiting, call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate area - Remove all sources of combustion, transfer bulk of material to another container, treat residue with proper absorbent.

Waste Disposal Method

Send to an approved disposal site or burn in accordance with State and local regulations.

Precautions to Be Taken in Handling and Storing

Use non-sparking tools, keep in cool, dry area. Keep container tightly sealed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Plastic or rubber oil resistant gloves. Safety goggles and full face shield.

Other Protective clothing or Equipment

N.A.

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Highly refined Mineral Oils**	64742-65-0	5mg/m3 *	-
SECTION II - PHYSICAL CHARACTERISTICS			

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate ()	N.A.

Solubility in Water Negligible

Appearance and odor Amber colored liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Above 100C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide (foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	Avoid breathing oil mist.

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Of combustion, fumes, smoke, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	Avoid breathing oil mist.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro - intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In Eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. if swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into container.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust		Special
			N.A.
	Mechanical (General)		Other
	N.A.		N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face field.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Hazardous

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IDENTITY(As Used on Label and List)				LAST ACCESSED: 24/07/1996						
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SECTION I - HAZARDO	SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION									
Hazardous Components						Other Limits				
(Specific Chemical Ide	ntity:	Common Name(s))		CAS NO	TLV	Recommended				
Oil 350 White				8042-47-5	*5mg/m3	_				
Butylated hydroxy	toluer	ıe		128-37-0	10mg/m3	_				
SECTION II - PHYSI	CAL CH	ARACTERISTIC	S							
Boiling Point		N.A.	S	Specific Gravity (H	120 = 1)	0.888				
Vapor Pressure (N.A.	,)	N.A.	M	Melting Point		N.A.				
Vapor Density (AIR =	= 1)	N.A.	E	Evaporation Rate ()	N.A.				
Solubility in Water Ne	egligi	ble	ı							
Appearance and Odor Li	ight c	Lear yellow	liqu	id						
SECTION III - FIRE	AND E	XPLOSION HAZ	ZARD	DATA						
Flash Point (Method U	sed)		Flamm	nable Limits LEL		UEL				
216C			N.A.			-				
Extinguishing Media										
Dry chemical										
	., cark	on dioxide,	foar	m, sand.						
Special Fire Fighting		•	foar	m, sand.						
Special Fire Fighting	g Proced	ures		n, sand. oved self conta	ined breathi	ng apparatus.				
Special Fire Fighting	Proced	ures 11d wear an a		<u> </u>	ined breathi	ng apparatus.				
Special Fire Fighting Fire fighter	Proced	ures 11d wear an a		<u> </u>	ined breathi	ng apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl	r Proced	ures ild wear an a azards		<u> </u>	ined breathi	ng apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl Dense smoke SECTION IV - REACT	g Proced s shou losion H	ures ild wear an a azards		<u> </u>	ined breathi	Ing apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl Dense smoke SECTION IV - REACT	g Proceders should be shou	ures ald wear an a azards DATA		<u> </u>	ined breathi	Ing apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl Dense smoke SECTION IV - REACT Stability	g Proceders show losion H CIVITY Conditi	ures ild wear an a azards DATA ons to Avoid None		<u> </u>	ined breathi	ng apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl Dense smoke SECTION IV - REACT Stability Stable	r Proceders should be shou	ures ald wear an a azards DATA ons to Avoid None Avoid)	appro	oved self conta	ined breathi	ng apparatus.				
Special Fire Fighting Fire fighter Unusual Fire and Expl Dense smoke SECTION IV - REACT Stability Stable Incompatibility (Mater Hydrogen per	r Proced rs should should be should	ures ald wear an a azards DATA ons to Avoid None Avoid) chromic accordacts	appro	oved self conta	ined breathi	Ing apparatus.				

Conditions to Avoid

Polymerization

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before reuse.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

Hazardous

Polymerization

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

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FAX: (852)2577 3190

IDENTITY(As Used on Lab	el and List)	LAST ACCESSED	: 24/07/199	6			
OMEGA 585							
SECTION I - HAZARDOUS	INGREDIENTS/I	DENT	TITY INFORMATION				
Hazardous Components					Other	: Limits	
(Specific Chemical Identi	ty: Common Name(s))	CAS NO	rlv	Recon	mmended	
Synthetic polyalphao	lefin		68037-01-4	5mg/m3 *	-		
Synthetic polybutene			9003-29-6	5mg/m3	_		
SECTION II - PHYSICAL	CHARACTERISTI	CS					
Boiling Point	N.A.		Specific Gravity (H	20 = 1)	0.85	2	
Vapor Pressure (mm Hg)	<1		Melting Point		N.A.		
Vapor Density (AIR = 1)	N.A.		Evaporation Rate (-)	N.A.		
Solubility in Water Inso	luble in water						
Appearance and Odor Off-	white color						
SECTION III - FIRE A	ND EXPLOSION HA	ZAR	D DATA				
Flash Point (Method Used	!)	Fla	mmable Limits	LEL	UEI		
210C		N.A	Α.	1	-	-	
Extinguishing Media							
Dry chemical,	carbon dioxide,	, fo	am, sand.				
Special Fire Fighting Pr	rocedures						
Water to cool	exposed contain	ners					
Unusual Fire and Explosi	on Hazards						
Dense smoke.							
SECTION IV - REACTIVE	ITY DATA						
Stability Cor	Stability Conditions to Avoid						
Stable None							
Incompatibility (Material	s to Avoid)						
Strong oxidizi	ng agent: Hydro	ogen	peroxide, chrom	ic acid, bro	omine.		
Hazardous Decomposition o	r Products						
By open flame:	Carbon monoxid	le,	carbon dioxide				

Conditions to Avoid

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Swallowed: If person is conscious, give water or milk. Ingestion or vomiting may result in its aspiration which may cause pneumonitis. Eye:

May cause moderate eye irritation. Skin: Prolonged or frequent contact may cause irritation or skin cracking. Inhaled: Vapour or mist at concentrations exceeding OSHA TLV may be irritating to the respiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of the fluid may cause lung injury (pneumonitis). Call a physician immediately. Eye: Flush eyes with water at least for 15 minutes with eyelids open. Skin: Wash thoroughly with soap and water. Inhaled: If respiratory irritation occurs move person to fresh air. If irritation continues call a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer spilt product into another container. Absorb remaining residue with absorbents. e.g. sand, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection			
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.			

Other Protective Clothing or Equipment

None required.

Work/Hygienic Practices

N.A.

Remarks

* TLV for oil mist.

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Hazardous

Polymerization

Will Not Occur

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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				FAX: (852)257	7 3190					
IDENTITY(As Used on	IDENTITY(As Used on Label and List) LAST ACCESSED: 24/07/1996									
OMEGA 6	01									
SECTION I - HAZARI	OUS IN	GREDIENTS/I	DENT	ITY INFORMATION						
Hazardous Components Other Limits										
(Specific Chemical Identity: Common Name(s)) CAS NO TLV Recommended										
Highly refined min	neral o	ils**		64742-65-0	5mg/m3 *					
SECTION II - PHYSI	CAL CH	ARACTERISTI	CS							
Boiling Point		N.A.		Specific Gravity (H	120 = 1)	0.	9			
Vapor Pressure (N.A.)	N.A.		Melting Point		N.	Α.			
Vapor Density (AIR =	= 1)	N.A.		Evaporation Rate ()	N.	Α.			
Solubility in Water N	egligil	ole								
Appearance and Odor A	mber co	olored liqui	id w	ith mineral oil	odor.					
SECTION III - FIRE	E AND E	XPLOSION HA	ZARI	DATA						
Flash Point (Method	Used)		Flam	mable Limits	LEL		UEL			
About 100C			N.A	.•	_		_			
Extinguishing Media										
Dry chemica	l, car	bon dioxide	, fo	am, sand.						
Special Fire Fightin	g Proced	lures								
Fire fighte	rs sho	uld wear an	app	roved self conta	ined breath	ing	apparatus.			
Unusual Fire and Exp		lazards								
Dense smoke	!									
SECTION IV - REAC	TIVITY	DATA								
Stability	ability Conditions to Avoid									
Stable Avoid breathing oil mist.										
Incompatibility (Mate										
Avoid cont	act wi	th strong ox	xidi:	zing agents.						
Hazardous Decomposition										
Of combust	ion, fu	umes, smoke	, ca	rbon dioxide.						

Avoid breathing oil mist.

Conditions to Avoid

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In Eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil, to salvage tank. Use sand or absorbent on remaining oil and shovel into container.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective GlovesEye ProtectionRubber or plastic oil resistant gloves.Safety goggles and full face shield.

Other Protective Clothing or Equipment

N.A.

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 603

LAST ACCESSED: 24/07/1996

OMEGA 603								
SECTION I - HAZARDOUS	INGREDIENTS/I	DENTI	TY INFORMATIO	ON				
Hazardous Components				other .	Limits Recom			
(Specific Chemical Identi	CAS NO	TLV	п	nended				
Highly refined minera	al oils**		64742-65-0	5mg/	/m3* -	-		
SECTION II - PHYSICAL CHAI	RACTERISTICS							
Boiling Point	N.A.	2	Specific Gravity	(H20 =	: 1)	0	0.9	
Vapor Pressure (N.A.)	N.A.	1	Melting Point			N	.A.	
Vapor Density (AIR = 1)	N.A.	1	Evaporation Rate	()	N	.A.	
Solubility in Water Negl	igible							
Appearance and Odor Ambe	r colored liqu	id wi	th mineral oi	.l odo	r.			
SECTION III - FIRE A	ND EXPLOSION HA	ZARD	DATA					
Flash Point (Method Used	!)	Flamm	ammable Limits		LEL		UEL	
Above 100C		N.A.		_			_	
Extinguishing Media								
Dry chemical, carbo	on dioxide, foa	m, sa	and.					
Special Fire Fighting Pr	rocedures							
Fire fighters shoul	ld wear an appr	oved	self containe	ed bre	eathing	g app	aratus.	
Unusual Fire and Explosi	on Hazards							
Dense smoke								
SECTION IV - REACTIVE	ITY DATA							
Stability Cor.	ditions to Avoid							
Stable	None							
Incompatibility (Material	s to Avoid)							
Avoid contact	with strong ox:	idizi	ng agents.					
Hazardous Decomposition o	r Products							
Of combustion,	fumes, smoke,	carb	oon dioxide.					
Hazardous	Conditions to A	void						
Polymerization								
Vill Not Occur None								

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 604									
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION									
Hazardous Components									
(Specific Chemical Identity:	Common Name(s)	CAS NO	TLV	Recommended					
Highly refined mineral of	oils**		64742-65-0	5mg/m3 *	-				
SECTION II - PHYSICAL CHARACTERISTICS									
Boiling Point	N.A.	S	pecific Gravity (1	H20 = 1)	0.9				
Vapor Pressure (N.A.)	N.A.	М	elting Point		N.A.				
Vapor Density (AIR = 1)	N.A.	E	vaporation Rate ()	N.A.				
Solubility in Water Negligi	ble								
Appearance and Odor Amber c	olored liqui	id wit	ch mineral oil	odor.					
SECTION III - FIRE AND	EXPLOSION HA	ZARD	DATA						
Flash Point (Method Used)		Flamma	able Limits	LEL	UEL				
Above 100C		N.A.		_	-				
Extinguishing Media									
Dry chemical, carbon o	dioxide, foa	m, sa	nd.						
Special Fire Fighting Proces	lures								
Fire fighters should w	wear an appr	oved	self contained	breathing a	apparatus.				
Unusual Fire and Explosion P	<i>lazards</i>								
Dense smoke									
SECTION IV - REACTIVITY DATA									
Stability Condit.	ditions to Avoid								
Stable None									
Incompatibility (Materials to Avoid)									
Avoid contact with strong oxidizing agents.									

Hazardous Decomposition or Products

Of combustion may form toxic compounds. Carbon monoxide, carbon dioxide, sulphur compounds and fumes.

HazardousConditions to AvoidPolymerizationNone

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection		
Rubber or plastic oil resistant gloves.	Safety goggles and full face field.		

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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Polymerization

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IDENTITY(As Used on Label and List) OMEGA 605		LAST ACCESSE	D: 24/07/199	6		
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION						
Hazardous Components					01	ther Limits
(Specific Chemical Identity:)	CAS NO	TLV	Re	ecommended
Highly refined mineral oils** 64742-65-0 5mg/m3 * -						
SECTION II - PHYSICAL CE	HARACTERISTI	:CS				
Boiling Point	N.A.		Specific Gravity (H20 = 1)	0	.9
Vapor Pressure (N.A.)	N.A.		Melting Point		N	.A.
Vapor Density (AIR = 1)	N.A.		Evaporation Rate ()	N	.A.
Solubility in Water Negl:	igible					
Appearance and Odor Amber	· liquid wit	h mi	neral oil odor.			
SECTION III - FIRE AND	SECTION III - FIRE AND EXPLOSION HAZARD DATA					
Flash Point (Method Used)	Flash Point (Method Used) Flammable Limits LEL UEL					
Above 100C		N.A	· •	<u>l -</u>	_	
Extinguishing Media						
Dry chemical, carbon of	dioxide, foa	ım, s	and.			
Special Fire Fighting Proced	ures					
Fire fighters should wear an approved self contained breathing apparatus.						
Unusual Fire and Explosion Hazards						
Dense smoke						
SECTION IV - REACTIVITY	DATA					
Stability Condit.	ions to Avoid					
Stable	Stable None					
Incompatibility (Materials to	Incompatibility (Materials to Avoid)					
Avoid contact with strong oxidizing agents.						
Hazardous Decomposition or Products						
Of combustion, fumes, smoke, carbon dioxide.						
Hazardous Conditions to Avoid						

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Will Not Occur

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 24/07/1996
OMEGA 606	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 64742-65-0 5mq/m3 * Highly refined mineral oil** SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (mm Hg) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and odor Red colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUELAbove 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, waterfog, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Conditions to Avoid Stability Stable None Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents. Hazardous Decomposition or Products Of combustion: fumes, smoke, carbon dioxide. Hazardous Conditions to Avoid Polymerization

None

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On Skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If Swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into container.

Waste Disposal Method

Small spill - Destroy by incineration

Large spill - Destroy by liquid incineration with off gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA 608

LAST ACCESSED: 24/07/1996

OMEGA 60									
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION									
Hazardous Components Other Limits									
(Specific Chemical Identity: Common Name(s)) CAS NO TLV					Recommended				
Highly refined min	Highly refined mineral oils** 64742-65-0 5mg/m3 * -								
SECTION II - PHYSI	CAL CHARA	CTERISTI	CS						
Boiling Point	Ν.	Α.		Specific Gravity (H	120 = 1)	0.9			
Vapor Pressure (N.A.) N.	Α.		Melting Point		N.A.			
Vapor Density (AIR = 1	1) N.	Α.		Evaporation Rate ()	N.A.			
Solubility in Water No.	egligible								
Appearance and Odor Ar	mber color	red liqui	id w	ith mineral oil	odor.				
SECTION III - FIRE	E AND EXPL	OSION HA	ZARI	SECTION III - FIRE AND EXPLOSION HAZARD DATA					
Flash Point (Method Used) Flammable Limits LEL UEL									
Flash Point (Method U	Jsed)		Flan	nmable Limits	LEL	UEL			
Flash Point (Method U	Jsed)		Flam		LEL -	UEL -			
•	Jsed)				LEL –	UEL -			
Above 100C		xide, foa	N.A	Δ.	LEL _	UEL -			
Above 100C Extinguishing Media	arbon diox		N.A	Δ.	LEL -	UEL —			
Above 100C Extinguishing Media Dry chemical, ca	arbon diox g Procedures	3	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting	arbon diox g Procedures nould wear	an appro	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting Fire fighters sh	arbon diox g Procedures nould wear	an appro	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting Fire fighters sh Unusual Fire and Expire	arbon diox g Procedures nould wear losion Hazar	s an appro	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting Fire fighters sh Unusual Fire and Expl	arbon diox g Procedures nould wear losion Hazar	s an appro	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting Fire fighters sh Unusual Fire and Expl Dense smoke SECTION IV - REACT	arbon diox g Procedures nould wear losion Hazar	s an apprords TA to Avoid	N.A	sand.	_				
Above 100C Extinguishing Media Dry chemical, ca Special Fire Fighting Fire fighters sh Unusual Fire and Expl Dense smoke SECTION IV - REACT	arbon diox g Procedures nould wear losion Hazar FIVITY DAT Conditions Non	s an apprords TA to Avoid	N.A	sand.	_				

Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Of combustion may form toxic compounds. Carbon monoxide, carbon dioxide, sulphur compounds and fumes.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritating subsides. On skin - thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

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TEL: (852)2577 5187

FAX: (852)2577 3190

IDENTITY(As Used on Label and List)

OMEGA 609

LAST ACCESSED : 13/05/1999

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name (s))	CAS NO.	TLV	Recommended
Technical white oil	8042-47-5	5mg/m3 *	

ECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	>250C	Specific Gravity (H20 = 1	0.87
Vapor Pressure (mmHg @25C)	<0.01	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.
	1 /1		

Solubility in Water < 0.1g/1

Appearance and Odor Near water white color

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
198C		N.A.	N.A.

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agent: Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

Incomplete combustion and high temperature thermal decomposition promote oxides of carbon, nitrogen, sulfur and phosphorus.

Hazardous Conditions to Avoid

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Swallowed: No effect expected if small amount is swallowed. If swallowed and the person is conscious give water or milk.

Eye: May cause minor eye irritation.

Skin: Prolonged or frequent contact may cause skin irritation or cracking.

Inhaled: Vapor or mist at concentrations exceeding ACGIH TLV may be

irritating to the respiratory tract.

Emergency & First Aid Procedures

Swallowed: Consult a doctor if a large amount is swallowed.

Eye: Rinse eyes immediately with water for at least 15 minutes. In case of irritation, seek medical advice.

Skin: Wash affected areas with soap and water. Do not use solvents.

Inhaled: Unlikely with this product. If respiratory irritation occurs move the person to fresh air. If irritation continues call a doctor.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remailining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before reuse.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other

N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required.

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist.

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Polymerization

Will Not Occur

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements. OMEGA MANUFACTURING DIVISION

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OMEGA 611

LAST ACCESSED: 24/07/1996

OMEGA 61	L1					
SECTION I - HAZARD	OUS :	INGREDIENTS/I	DEN:	TITY INFORMATION		
Hazardous Components						Other Limits
(Specific Chemical Ide	entity	: Common Name(s))	CAS NO	TLV	Recommended
Naphthenic highl	у 1	refined mine	eral	64742-65-0	5mg/m3 *	_
SECTION II - PHYSI	CAL (CHARACTERISTI	CS			
Boiling Point		N.A.		Specific Gravity (H	120 = 1)	0.898
Vapor Pressure (mm Hg.	.)	N.A.		Melting Point		N.A.
Vapor Density (AIR = 1	1)	N.A.		Evaporation Rate (-	,	N.A.
Solubility in Water N	eglig	gible				
Appearance and Odor G	reen	fluoro colore	ed 1	iquid with miner	al oil odor.	
SECTION III - FIRE	E AND	EXPLOSION HA	ZAR	D DATA		
Flash Point (Method)	Flash Point (Method Used) Fla			mmable Limits	LEL	UEL
Above 100C (PMCC) N.2		N.A	<i>A</i> .	_	_	
Extinguishing Media						
Dry chemical, ca	arbon	dioxide, foa	.m ,	sand.		
Special Fire Fighting	g Proc	edures				
Fire fighters sh	nould	wear an appr	ove	d self contained	breathing ag	paratus.
Unusual Fire and Exp	losion	Hazards				
Dense smoke						
SECTION IV - REACT	TIVIT	Y DATA				
Stability	Condi	tions to Avoid				
Stable		None				
Incompatibility (Mater	rials	to Avoid)				
Avoid conta	.ct w	ith strong ox	idiz	zing agents.		
Hazardous Decomposition	on or	Products				
Of combusti	on,	fumes, smoke,	cai	rbon dioxide.		
Hazardous		Conditions to A	void			

None

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritating subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into container.

Waste Disposal Method

Small Spill - Destroy by incineration.

Large Spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

	1
Protective Gloves	Eye Protection
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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Polymerization

Will Not Occur

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IDENTITY(As Used on Label and List)			LAST ACCESSED: 24/07/1996			
OMEGA 612						
SECTION I - HAZARDOUS	INGREDIENTS/I	DENT	ITY INFORMATION			
Hazardous Components					O	ther Limits
(Specific Chemical Identity	: Common Name(s)))	CAS NO	TLV	F	Recommended
Highly refined mineral	oils**		64742-65-0	5mg/m3 *	-	-
SECTION II - PHYSICAL	CHARACTERISTI	CS				
Boiling Point	N.A.		Specific Gravity (1	H20 = 1)	0	.9
Vapor Pressure (mm Hg.)	N.A.	i	Melting Point		N	.A.
Vapor Density (AIR = 1)	N.A.	1	Evaporation Rate (-)	N	.A.
Solubility in Water Neglig	gible					
Appearance and Odor Amber	liquid with	miner	cal oil odor.			
SECTION III - FIRE AND	EXPLOSION HA	AZARD	DATA			
Flash Point (Method Used) Flan			mable Limits	LEL		UEL
Above 100C (PMCC)		N.A.	-			_
Extinguishing Media						
Dry chemical, carbon	dioxide, foa	am, s	and.			
Special Fire Fighting Prod	edures					
Fire fighters should	wear an appr	roved	self contained	breathing a	app	aratus.
Unusual Fire and Explosion	n Hazards					
Dense smoke						
SECTION IV - REACTIVIT	Y DATA					
Stability Cond:	tions to Avoid					
Stable	None					
Incompatibility (Materials	to Avoid)					
Avoid contact w	ith strong ox	idizi	ng agents.			
Hazardous Decomposition or	Products					
Of combustion,	fumes, smoke,	cark	oon dioxide.			
Hazardous	Conditions to A	void				

None

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In-eyes - Flush with excess water until irritating subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If Swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbents on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective GlovesEye ProtectionRubber or plastic oil resistant gloves.Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Polymerization

Will Not Occur

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OMEGA 613						
SECTION I - HAZARDOUS I	NGREDIENTS/II	DENTI	TY INFORMATION			
Hazardous Components					0	ther Limits
(Specific Chemical Identity:	Common Name(s)) (CAS NO	TLV	R	ecommended
Highly refined mineral	oils**	(64742-65-0	5mg/m3 *	_	
SECTION II - PHYSICAL C	HARACTERISTI	CS				
Boiling Point	N.A.	Sı	pecific Gravity (H	20 = 1)	0	. 9
Vapor Pressure (mm Hg.)	N.A.	Ме	elting Point		N	.A.
Vapor Density (AIR = 1)	N.A.	E	vaporation Rate (-)	N	.A.
Solubility in Water Neglig:	ible	•				
Appearance and Odor Amber	liquid with r	minera	al oil odor.			
SECTION III - FIRE AND	EXPLOSION HA	ZARD	DATA			
Flash Point (Method Used) Flam			able Limits	LEL UI		UEL
Above 100C (PMCC)		N.A.		_		_
Extinguishing Media						
Dry chemical, carbon	dioxide, foa	m, sa	nd.			
Special Fire Fighting Proce	edures					
Fire fighters should	wear an appr	oved s	self contained	breathing a	pp	aratus.
Unusual Fire and Explosion	Hazards					
Dense smoke						
SECTION IV - REACTIVITY	DATA					
Stability Condit	ions to Avoid					
Stable	None					
Incompatibility (Materials t	o Avoid)					
Avoid contact wit	th strong oxi	idizir	ng agents.			
Hazardous Decomposition or P	roducts					
Of combustion: for	Of combustion: fumes, smoke, carbon dioxide.					
Hazardous	Conditions to A	roid				

None

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If Swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on	Label a	nd List)		LAST ACCESSED	: 03/06/199	7
OMEGA 615						
SECTION I - HAZARD	OUS IN	GREDIENTS/II	DENT:	ITY INFORMATION		
Hazardous Components						Other Limits
(Specific Chemical Ide	entity: (Common Name(s))	CAS NO	r <i>LV</i>	Recommended
Synthetic polyalph	naolefi	n		68037-01-4	5mg/m3 *	N.A.
SECTION II - PHYSI	CAL CH	ARACTERISTI	CS			
Boiling Point		> 250C		Specific Gravity (H	20 = 1)	0.84
Vapor Pressure (mm Hg.	.)	<0.01 @25C	1	Melting Point		N.A.
Vapor Density (AIR = 1	1)	N.A.		Evaporation Rate (-)	N.A.
Solubility in Water N	egligil	ole	•			
Appearance and Odor Of	Ef-whit	e liquid.				
SECTION III - FIRE	E AND E	XPLOSION HA	ZARD	DATA		
Flash Point (Method Us	sed)		Flam	mable Limits	LEL	UEL
> 200C					N.A.	N.A.
Extinguishing Media						
Dry chemical	, carbo	on dioxide,	foar	m, sand.		
Special Fire Fighting	Procedu	res				
Fire fighter	s shou	ld wear an a	appro	oved self contai	ned breathi	ng apparatus.
Unusual Fire and Explo	sion Haz	zards				
None expecte	d. Auto	oignition te	emper	rature is in exc	ess of 250C	
SECTION IV - REACT	TIVITY	DATA				
Stability	Conditi	ons to Avoid				
Stable		None				
Incompatibility (Mater	rials to	Avoid)				
Strong	oxidiz	ing agents:	hyd	rogen peroxide,	chromic aci	d, bromine.
Hazardous Decompositio	on or Pro	oducts				
Incomp]						

promote oxides of carbon, nitrogen, sulfur and phosphorus.

Conditions to Avoid

Hazardous

 ${\it Polymerization}$

Omega	615	Page	1
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Threshold Limit Value

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

swallowed: If swallowed and the person is conscious give water or milk. Ingestion or subsequent vomiting may result in its aspiration which could cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause skin irritation or cracking.

Inhaled: Vapour or mist at concentrations exceeding TLV may be irritating to be respiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of fluid may cause lung injury (pneumonitis). Call a physician immediately.

Eye: Rinse eyes immediately with water for at least 15 minutes. In case of irritation seek medical advice.

Skin: Wash affected areas with soap and water. Do not use solvents.

Inhaled: If respiratory irritation occurs move the person to fresh air. If irritation continues, call a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Prevent entry into sewers and waterways, product may be slippery.

Waste Disposal Method

Dispose of as per local regulations.

Precautions to Be Taken in Handling and Storing

As a precaution keep away from strong oxidising agents and sources of heat or ignition. Keep containers tightly closed when not in use. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before reuse.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other

N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for oil mist.

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Products

Hazardous

Polymerization

Avoid contact with strong oxidizing agents.

Of combustion: Fumes, smoke, carbon dioxide.

Conditions to Avoid

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IDENTITY(As Used on Label and List)		TASI ACCESSE	U3/U0/195	70			
OMEGA 630							
SECTION I - HAZARDO	OUS IN	GREDIENTS/I	DENT	TITY INFORMATION	•		
Hazardous Components						Ot	ther Limits
(Specific Chemical Iden	ntity: (Common Name(s))	CAS NO	TLV	Re	ecommended
Highly refined mine	eral o	il**		64742-65-0	5mg/m3 *	-	
Distillates (petro	oleum)	, hydrotrea	ated	64742-47-8	5mg/m3 *	_	
SECTION II - PHYSIC	CAL CH	ARACTERISTI	CS				
Boiling Point		N.A.		Specific Gravity (H20 = 1)	0.	9
Vapor Pressure (mm Hg)	N.A.		Melting Point		N.	Α.
Vapor Density (AIR = 1))	N.A.		Evaporation Rate (-)	N.	Α.
Solubility in Water Ne	gligi	ole					
Appearance and Odor Pu	rple o	colored liqu	uid	with mineral oi	l odor.		
SECTION III - FIRE	AND E	XPLOSION HA	ZARI	D DATA			
Flash Point (Method Used) Flammable Limits LEL UEL				UEL			
Above 80C (PMCC)		N.A	۸.	_		-	
Extinguishing Media							
Dry chemical, carbon dioxide, foam, sand.							
Special Fire Fighting Procedures							
Fire fighters should wear an approved self contained breathing apparatus.							
Unusual Fire and Explosion Hazards							
Dense smoke							
SECTION IV - REACTIVITY DATA							
Stability	Conditi	ons to Avoid					
Stable		None					

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - Can cause irritation. Skin - Prolonged or repeated contact can cause moderate irritation. Swallowing - Can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill at source, use dike to retain and pull oil to salvage tank. Use sand or - Exclude persons from area not wearing protective equipment. Stop spill absorbent on remaining oil and shovel into container.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mists.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. | Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List) **LAST ACCESSED:** 24/07/1996

OMEGA 631					
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLV Recommended					
Highly refined minera	al oils**		64742-65-0	5mg/m3 *	_
SECTION II - PHYSICAL	CHARACTERISTI	CS			
Boiling Point	N.A.	S	pecific Gravity (F	I20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	М	elting Point		N.A.
Vapor Density (AIR = 1)	N.A.	E	vaporation Rate (-	.)	N.A.
Solubility in Water Negl	igible				
Appearance and Odor Red	fluoro colored	liqui	id with mineral	oil odor.	
SECTION III - FIRE A	ND EXPLOSION H	AZARD	DATA		
Flash Point (Method Used)	Flamma	able Limits	LEL	UEL
Above 100C (PMCC)		N.A.		-	-
Extinguishing Media					
Dry chemical, carbo		am, sa	nd.		
Special Fire Fighting Pr		-			
Fire fighters shoul		coved	self contained	breathing a	pparatus.
Unusual Fire and Explosion Hazards Dense smoke					
SECTION IV - REACTIVE	רייע האייא				
	ditions to Avoid				
Stable	None				
Incompatibility (Material					
Avoid contact with strong oxidizing agents.					
Hazardous Decomposition or Products Of combustion, fumes, smoke, carbon dioxide.					
Hazardous	Conditions to Avoid				
olymerization					
Will Not Occur	None	None			

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastroin-testinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water, Remove clothing and launder clothing before reuse. If Swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration

Large s pill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA 636	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
White spirits#	64742-82-1	5mg/m3 *	
Highly refined mineral oil**	64742-65-0	5mg/m3 *	-
Butyl cellosolve	111-76-2	25ppm	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	145C	Specific Gravity (H20 = 1)	0.843
Vapor Pressure (mm Hg.)	1	Melting Point	N.A.
Vapor Density (AIR = 1)	Heavier	Evaporation Rate (Ether=1)	<1

Solubility in Water Insoluble

Appearance and Odor Green oil liquid with white spirit type odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
52C		_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, flames, and other ignition sources at locations distant from handling point.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None
Incompatibility (Materials to Avoid)	

ncompatibility (Materials to Avoid)

Strong oxidizing agents: hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

Carbon monoxide, carbon dioxide.

Hazardous

Conditions to Avoid

Polymerization

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - Can cause gastro-intestinal irritation, nausea, vomiting or diarrhea.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Eliminate all ignition source. Small spill - absorb on paper, absorbent and move to hood. Allow to evaporate. Large spill - Exclude person from area not wearing protective equipment. Stop spill at source dike to retain spill, pump oil to salvage tank. Use on remaining oil.

Waste Disposal Method

Small spill - Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Destroy remaining material by burning in an iron pan.

Precautions to Be Taken in Handling and Storing

Keep containers closed when not in use. Keep away from heat, fire and ignition sources.

Other Precautions

Avoid eye contact, repeated or prolonged skin contact wear impervious clothing.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

If TLV of material exceeded, use self-contained breathing apparatus with full facepiece on pressure demand.

Ventilation	Local Exhaust	Special
	Required	Usually not needed in open.
	Mechanical (General)	Other
	Ventilation my be restricted.	unconfined space.

Protective Gloves	Eye Protection
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.
- # Contains less than 0.1% w/w benzene.

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Incompatibility (Materials to Avoid)

Hazardous Decomposition or Products

Hazardous

Polymerization

Avoid contact with strong oxidizing agents.

Conditions to Avoid

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OMEGA 640								
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION								
Hazardous Components						Other Limits		
(Specific Chemical Identity: Common Name(s)) CAS NO TLV						Recommended		
Highly refined mineral oil** 64742-65-0 5mg/m3 *						-		
Distillates (petroleum), hydrotreated 64742-47-8 5mg/m3 * - light								
SECTION II - PHYSICAL CHARACTERISTICS								
Boiling Point		N.A.		Specific Gravity (H20 = 1)		0.9		
Vapor Pressure (mm Hg.	.)	N.A.		Melting Point		N.A.		
Vapor Density (AIR = 1	1)	N.A.		Evaporation Rate (-)		N.A.		
Solubility in Water Negligible								
Appearance and Odor Purple colored liquid with mineral oil odor.								
SECTION III - FIRE AND EXPLOSION HAZARD DATA								
Flash Point (Method U	ash Point (Method Used)		Flan	mable Limits	LEL	UEL		
Above 80C (PMCC)	bove 80C (PMCC)		N.A	- ·		-		
Extinguishing Media								
Dry chemical, carbon dioxide, foam, sand.								
Special Fire Fighting Procedures								
Fire fighters should wear an approved self contained breathing apparatus.								
Unusual Fire and Explosion Hazards								
Dense smoke								
SECTION IV - REACTIVITY DATA								
Stability	Conditi	Conditions to Avoid						
Stable		None						

Of combustion, fumes of smoke, carbon dioxide & monoxide may evolved.

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro - intestinal irritation, nausea, vomiting or diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep containers closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged or repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Other Protective Clothing or Equipment

Rubber or plastic oil resistant gloves.

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Omega 640

Safety goggles and full face shield.

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

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Will Not Occur

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OMEGA 643							
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION							
Hazardous Components Other Limits							
(Specific Chemical Ide	entity	: Common Name(s))	CAS NO	TLV	F	Recommended
Highly refined mir	neral	oils**		64742-65-0	5mg/m3 *		
SECTION II - PHYSI	CAL (CHARACTERISTI	CS				
Boiling Point		N.A.		Specific Gravity (H20 = 1)	0	.9
Vapor Pressure (mm Hg.	.)	N.A.		Melting Point		N	.A.
Vapor Density (AIR = 1	1)	N.A.		Evaporation Rate (-)	N	.A.
Solubility in Water N	eglig	jible					
Appearance and Odor A	mber	colored liqu	id w	vith mineral oil	odor.		
SECTION III - FIRE	E AND	EXPLOSION HA	ZAR	D DATA			
Flash Point (Method Used)			Fla	mmable Limits	LEL		UEL
Above 100C (PMCC)		N.A				_	
Extinguishing Media							
Dry chemical, carbon dioxide, foam, sand.							
Special Fire Fighting Procedures							
Fire fighters should wear an approved self contained breathing apparatus.							
Unusual Fire and Explosion Hazards							
Dense smoke							
SECTION IV - REACT	TIVIT	Y DATA					
Stability	Condi	tions to Avoid					
Stable	None						
Incompatibility (Mater	rials	to Avoid)					
Avoid conta	ct wi	th strong ox	idiz	zing agents.			
Hazardous Decomposition or Products Of combustion, fumes of carbon dioxide & monoxide may evolved.							
Hazardous		Conditions to A	void	1			
Polymerization							

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - Prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting and diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaus	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. | Safety goggles and full face shield.

Other Protective Clothing or Equipment

None requiredNone required

Work/Hygienic Practices

N.A.

Remarks

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- ** contains less than 3% DMSO extract as measured by IP 346.

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SECTION I -	HAZARDOIIG	TNCPFDTFNTC	/TDFWTTTV	INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity : Common Name (s))	CAS NO.	TLV	Recommended
Molybdenum disulfide	1317-35-5	15.0 mg/m3	_
Highly refined mineral oil**	64742-65-0	5mg/m3 *	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate(-)	N.A.

Solubility in Water Negligible

Appearance and Odor Dark grey liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL	
Above 100C (PMCC)	N.A.	-	-	

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid	
Stable	None	
Incompatibility (Materials to Avoid)		

 ${ t ncompatibility}$ (Materials to ${ t Avoid}$)

Strong oxidizing agents.

Hazardous Decomposition or Products

Dense Smoke, carbon monoxide, carbon dioxide.

Hazardous Conditions to Avoid Polymerization

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

See section I hazardous ingredients.

Effects of Overexposure

Mild skin irritation.

Emergency & First Aid Procedures

Eyes: Flush with large amount of water for at least 15 minutes.

Skin Contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate area - remove all sources of combustion - transfer bulk of material to another container - treat residue with proper absorbent.

Waste Disposal Method

Send to an approved disposal site or burn in accordance with State and local regulations.

Precautions to Be Taken in Handling and Storing

Keep in a cool, dry area.

Keep container tightly sealed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Rubber or plastic oil resistant gloves.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves		Eye Protection

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Safety goggles and full faceshield.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity : Common Name (s))	CAS NO.	TLV	Recommended
Molybdenum disulfide	1317-35-5	15.0 mg/m3	_
Synthetic Polybutenes	9003-28-50	5mg/m3 *	-

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	0.88
Vapor Pressure (Hg mm)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Dark grey liquid

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
171C C.O.C.	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Extreme heat - Strong oxidizing agents.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide and dense smoke.

Hazardous Conditions to Avoid Polymerization

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

See section I hazardous ingredient.

Effects of Overexposure

Mild skin irritant.

Emergency & First Aid Procedures

Eyes: Flush with water for at least 15 min.

Skin contact: Wash with water.

Inhalation : N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material to another container, pick up residue with proper absorbent.

Waste Disposal Method

In accordance with local regulations for lubricating oil waste.

Precautions to Be Taken in Handling and Storing

Keep in cool dry place.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist.

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OMEGA 648

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATIO

Hazardous Components			Other Limits
(Specific Chemical Identity : Common Name (s))	CAS NO.	TLV	Recommended
_	_	_	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	>200C	Specific Gravity (H20 = 1)	0.97
Vapor Pressure (Hg mm)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Clear yellow liquid with mild odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
>250C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, and sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agents: hydrogen peroxide, chromic acid and bromine.

Hazardous Decomposition or Products

By open flame: Carbon monoxide, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredient.

Effects of Overexposure

Swallowed: Ingestion or vomiting may result in its aspiration, which may cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause irritation or skin cracking.

lung injury (pneumonitis). Call a physician immediately.

Inhaled: Vapor or mist at high concentration may be irritating to the respiratory tract.

Emergency & First Aid Procedures

Eye: Flush with water for at least 15 min.

Skin contact: Wash with water.

Inhalation: If respiratory irritation occurs move person to fresh air. If irritation continues call a doctor.

If swallowed: Do not induce vomiting. Aspiration of the fluid may cause

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material to another container, pick up residue with proper absorbent.

Waste Disposal Method

This product is not considered dangerous or poisonous. Dispose of according to local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep in cool dry place.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

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Hazardous

Polymerization

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OMEGA 656			,			
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION						
Hazardous Components Other Limits						
(Specific Chemical Identity: (Common Name(s))	CAS NO	TLV	Recommended		
Diethanolamine	111-42-2	-	_			
Diethylene glycol monoethyl ether		111-90-0	-	-		
Triethanolamine		102-71-6	-	_		
SECTION II - PHYSICAL CH	ARACTERISTIC	S				
Boiling Point	>100C	Specific Gravity	(H20 = 1)	1.02		
Vapor Pressure (-)	-	Melting Point		-		
Vapor Density (AIR = 1)	-	Evaporation Rate	(-)	-		
Solubility in Water Solub	le	•		1		
Appearance and Odor Fluore	escent yellow	with no unpleasa	ant odor.			
SECTION III - FIRE AND E	EXPLOSION HAZ	ARD DATA				
Flash Point (Method Used) Flammable Limits LEL UEL						
None			-	_		
Extinguishing Media	•		<u> </u>	·		
Dry chemical, car	bon dioxide,	foam, sand.				
Special Fire Fighting Proced	ures					
None	050KJ~					
Unusual Fire and Explosion Harden Dense smoke.	azarɑs					
SECTION IV - REACTIVITY	DATA					
Stability Conditions to Avoi	id	res, nitrosating a	agents.			
Stability Conditions to Avoi	id gh temperatur	res, nitrosating a	agents.			
Stability Conditions to Avor	id gh temperatur Avoid)	res, nitrosating a	agents.			
Stability Conditions to Avor Stable Extremely high	id gh temperatur Avoid) agents.	res, nitrosating a	agents.			

Conditions to Avoid

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See Section I hazardous ingredients.

Effects of Overexposure

Eyes - Prolonged contact can cause severe irritation.

Skin - Prolonged contact can cause mild irritation.

Inhalation - Can cause irritation.

Emergency & First Aid Procedures

Eyes - Flush with large amount of water for at least 15 minutes. Consult physician.

Skin - Wash affected area with soap and water. If irritation persists, consult physician.

Ingestion - Call physician immediately.

Inhalation - Remove to fresh air. If necessary, give oxygen, artificial respiration. Consult physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Use a sweeping compound to contain spills. Then shovel up the sweeping compound and dispose of via normal garbage or waste disposal. Rinse contaminated area with water.

Waste Disposal Method

By method consistent with local, Status, Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use.

Other Precautions

Keep out of the reach of children. Do not store at extremely high temperatures.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
_	_	

	14.11.		14.21.			
Protective Gloves		Eye Protection				
Rubber or plastic gloves.		Safety gogg	gles and	full	face	shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

N.A.=Not Applicable

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OMEGA MANUFACTURING DIVISION

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IDENTITY (As Used on Label and List) **LAST ACCESSED** : 24/07/1996

OMEGA 657				
SECTION I - HAZARDOUS	INGREDIENTS/	IDENTITY INFORMATI	ON	
Hazardous Components				Other Limits
(Specific Chemical Identit	y : Common Name	(s)) CAS NO.	TLV	Recommended
Highly refined minera	l oils**	64742-65-0	5mg/m3 *	_
SECTION II - PHYSICAL	CHARACTERIST	rics		
Boiling Point	N.A.	Specific Grav	rity (H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	Melting Poin	t	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation 1	Rate (-)	N.A.
Solubility in Water Negli	gible			
Appearance and Odor Amber	colored liq	uid with mineral of	il odor.	
SECTION III - FIRE ANI	EXPLOSION H	IAZARD DATA		
Flash Point (Method Used)		Flammable Limits	LEL	UEL
Above 100C (PMCC)		N.A.	_	_
Extinguishing Media	<u>.</u>		•	
Dry chemical, carbon	dioxide, fo	am, sand.		
Special Fire Fighting Proce	edures			
Fire fighters should	wear an appı	roved self containe	ed breathing	apparatus.
Unusual Fire and Explosion	Hazards			
Dense smoke				
SECTION IV - REACTIVIT	TY DATA			
Stability Cond	itions to Avoid			
table None				
Incompatibility (Materials to Avoid)				
Strong Oxidizing agents.				
Hazardous Decomposition or	Products			
By open flame: Dense smoke, carbon monoxide, carbon dioxide				
Hazardous	Conditions to	Avoid		
Polymerization				
Will Not Occur	None			

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Mild skin irritation.

Emergency & First Aid Procedures

Eyes: Flush with large amount of water for at least 15 minutes.

Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate area - remove all sources of combustion - transfer bulk of material to another container - treat residue with proper absorbent.

Waste Disposal Method

Send to an approved disposal site or burn in accordance with State and local Regulations.

Precautions to Be Taken in Handling and Storing

Keep in a cool, dry area.

Keep container tightly sealed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

** Contains less than 3% DMSO extract as measured by IP 346.

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LAST ACCESSED : 16/10/1998

OMEGA 658

SECTION I -	HAZARDOIIG	INGREDIENTS	/TDFWTTTV	TNEODMATION
OPCITON T -	падакисто		/ TDGNITII	TIME OWNER TON

Hazardous Components		_	Other Limits
(Specific Chemical Identity : Common Name (s))	CAS NO.	TLV	Recommended
Highly refined mineral oils**	64742-53-6	5.0 mg/m3 *	-
Diethanolamine	111-42-2	_	-

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	>200C	Specific Gravity (H20 = 1)	0.90
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (Ether=1)	<1

Solubility in Water Miscible

Appearance and Odor Dark amber liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
174C, C.O.C.	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition or Products

Toxic vapors may be produced upon burning.

Hazardous Conditions to Avoid Polymerization

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Harmful if swallowed or absorbed through skin. Causes mild skin irritation. May cause severe irritation to eyes.

Emergency & First Aid Procedures

Eyes - Flush with large amount of water, get medical attention.

Internal - Do not induce vomiting, send for physician.

Enternal - Wash affected area with soap and water.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Use a sweeping compound to contain spills. Then shovel up the sweeping compound and dispose of via normal garbage or waste diposal. Rinse contaminated area with water.

Waste Disposal Method

Dispose of in accordance with local and national regulations.

Precautions to Be Taken in Handling and Storing

Store between 5C & 32C. Avoid contact with eyes, skin or clothing. Keeping away from children.

Other Precautions

Do not store at extreme temperature. Keep from freezing.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. |Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA 659

LAST ACCESSED: 17/06/1997

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components Other Limits		Other Limits	
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Medicinal paraffin oil	8042-47-5	*5mg/m3	_
N'N-Bis (2-Hydroxy ethyl) lauramide	120-40-1	-	-

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	>250C	Specific Gravity (H20 = 1)	0.885
Vapor Pressure (mm Hg @25C)	<1	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Miscible

Appearance and Odor Off-white colored oil

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
>150C		N.A.	N.A.

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agents: Hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

Incomplete combustion and high temperature thermal decomposition may promote oxides of carbon, nitrogen, sulfur and phosphorus.

Hazardous Conditions to Avoid

Will Not Occur

None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By method consistent with local, State and Federal regulation.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection
Rubber or plastic oil resistant gloves.	Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

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IDENTITY(As Used on Label and List) **LAST ACCESSED:** 24/07/1996

OMEGA 660	 /				-
SECTION I - HAZARDOUS IN	GREDIENTS/I	DENT]	TY INFORMATION		
Hazardous Components					Other Limits
(Specific Chemical Identity: (Common Name(s))	CAS NO	TLV	Recommended
Highly refined mineral o	oil**		64742-65-0	5mg/m3 *	_
SECTION II - PHYSICAL CH	ARACTERISTI	CS			
Boiling Point	N.A.	;	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	1	Melting Point		N.A.
Vapor Density (AIR = 1)	N.A.		Evaporation Rate (-)	N.A.
Solubility in Water Negligi	.ble				
Appearance and Odor Amber C	olored liqu	id w	ith mineral oil	odor.	
SECTION III - FIRE AND E	EXPLOSION HA	AZARD	DATA		
Flash Point (Method Used)		Flam	mable Limits	LEL	UEL
Above 100C (PMCC)		N.A.			
Extinguishing Media					
Dry chemical, cark	bon dioxide	, foa	am, sand.		
Special Fire Fighting Proced	lures				
Fire fighters show	uld wear an	appı	coved self cont	ained breath	ing apparatus.
Unusual Fire and Explosion H	Tazards				
Dense smoke					
SECTION IV - REACTIVITY	DATA				
Stability Conditi	ons to Avoid				
Stable	None	_			
Incompatibility (Materials to	Avoid)				
Avoid contact with	n strong ox	idizi	ng agents.		
Hazardous Decomposition or Pr	roducts		_	_	_
Of combustion, fumes, smoke & carbon dioxide may evolved.					
Hazardous Cor	Conditions to Avoid				
Polymerization					
Will Not Occur	None				
SECTION V - HEALTH HAZAR	RD DATA				
Threshold Limit Value					

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can moderate irritation. Swallowing irritation, cause vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - flush with excess water until irritation subsides. On skin -Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protection	

Rubber or plastic oil resistant gloves.

Eve Protection

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA 670

LAST ACCESSED: 24/07/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 64742-65-0 5mg/m3 *SECTION II - PHYSICAL CHARACTERISTICS Specific Gravity (H20 = 1) Boiling Point N.A. 0.9 Vapor Pressure (mm Hg.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Amber liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. Above 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents. Hazardous Decomposition or Products Of combustion, fumes, smoke & carbon dioxide may evolved. Hazardous Conditions to Avoid Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin -Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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LAST ACCESSED: 24/07/1996 IDENTITY(As Used on Label and List) OMEGA 680

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oil** 64742-65-0 5mq/m3 * Molybdenum disulfide 1317-35-5 15.0 mg/mSECTION II - PHYSICAL CHARACTERISTICS Specific Gravity (H20 = 1) Boiling Point N.A. 0.9 Vapor Pressure (mm Hg. Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-) N.A. N.A. Solubility in Water Negligible Appearance and Odor Black colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUELAbove 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Extreme heat - strong oxidizing agents. Hazardous Decomposition or Products Dense smoke - carbon monoxide - carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

See section I hazardous ingredient.

Effects of Overexposure

Mild skin irritation.

Emergency & First Aid Procedures

Eyes: Flush with water for 15 minutes.

Skin contact: Wash with water.

Inhalation: N.A.

If swallowed: Do not induce vomiting. Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate area - remove all sources of combustion - transfer bulk of material to another container - treat residue with proper absorbent.

Waste Disposal Method

Send to an approved disposal site or burn in accordance with State and local Regulations.

Precautions to Be Taken in Handling and Storing

Use non-sparking tools - keep in a cool, dry area.

Keep container tightly sealed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURE

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA 690

LAST ACCESSED : 23/7/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components				Other Limits
Highly refined mineral oils** 64742-65-0 5mg/m3 *			5mg/m3 *	_
SECTION II - PHYSICAL CHARACTERISTICS				
Boiling Point	N.A.	Specific Gravity	r (H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	Melting Point		N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate	: (-)	N.A.

Solubility in Water Negligible

Appearance and odor Red colored liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Above 100C (PMCC)	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Avaoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Of combustion; May form toxic materials, carbon monoxide, carbon dioxide

or compascion, na, r	orm coare macerials, carson monoarac, carson aroarac
Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can

cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhoea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder before reuse. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper or absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gass scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves		Eye Protection
Rubber or plastic.		Safety goggles.

Other Protective Clothing or Equipment

None required.

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

We believe that the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee

of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 18/12/1998
OMEGA690 75W90	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 64742-65-0 5mg/m3 * Polyalphaolefin 68037-01-4 5mg/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 0.903 N.A. Melting Point Vapor Pressure (mm Hg) @25C <1 N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Red liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. >150C N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, and sand. Special Fire Fighting Procedures Fire fighters should wear an approved self-contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Strong oxidizing agents: hydrogen peroxide, chromic acid, and bromine. Hazardous Decomposition or Products By open flame: carbon monoxide, carbon dioxide. Hazardous Conditions to Avoid Polymerization Will Not Occur N.A. SECTION V - HEALTH HAZARD DATA Threshold Limit Value

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Swallowed: Ingestion or vomiting may result in its aspiration, which may cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause irritation or skin cracking.

Inhaled: Vapour or mist at concentration exceeding TLV may be irritating to the repiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of the fluid may cause lung injury (pneumonitis). Call a doctor immediately.

Eye: Flush eyes with water at least for 15 minutes with eyelids open.

Skin: Wash thoroughly with soap and water.

Inhaled: If respiratory irritation occurs move person to fresh air. If irritation continues call a doctor.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer spilt product into another container. Absorb remaining residue with absorbents. e.g. sand, vermiculite.

Waste Disposal Method

The product is not considered dangerous or poisonous. Dispose of according to local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Rubber or plastic oil resistant gloves.

Eye Protection

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA690 75W140

LAST ACCESSED: 18/12/1998

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 68037-01-4 5mg/m3 * Polyalphaolefin SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.86 Vapor Pressure (mm Hg) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Red liquid with oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. N.A. >200°C Extinguishing Media Dry chemical, carbon dioxide, foam, and sand. Special Fire Fighting Procedures Fire fighters should wear an approved self-contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Strong oxidizing agents: hydrogen peroxide, chromic acid, and bromine. Hazardous Decomposition or Products By open flame: carbon monoxide, carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur N.A. SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

Swallowed: Ingestion or vomiting may result in its aspiration, which may cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause irritation or skin cracking.

Inhaled: Vapour or mist at concentration exceeding TLV may be irritating to the repiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of the fluid may cause lung injury (pneumonitis). Call a doctor immediately.

Eye: Flush eyes with water at least for 15 minutes with eyelids open.

Skin: Wash thoroughly with soap and water.

Inhaled: If respiratory irritation occurs move person to fresh air. If irritation continues call a doctor.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer spilt product into another container. Absorb remaining residue with absorbents. e.g. sand, vermiculite.

Waste Disposal Method

The product is not considered dangerous or poisonous. Dispose of according to local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Ventilation Local Exhaust	
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for oil mist

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MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

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IDENTITY(As Used on Label and List)	LAST ACCESSED:	24/07/1996
OMEGA 696		
SECTION I - HAZARDOUS INGREDIENTS/IDENTIT	Y INFORMATION	

OMEGA 696							
SECTION I - HAZARDOUS IN	GREDIENTS/II	ENTI:	TY INFORMAT	CION			
Hazardous Components Other Limits							
(Specific Chemical Identity:	Common Name(s)))	CAS NO	:	TLV		Recommended
Highly refined mineral of	oil**		64742-65-0		5 mg/m3 *	-	-
SECTION II - PHYSICAL CH	IARACTERISTIC	CS					
Boiling Point	N.A.	S	pecific Gravi	ty (H	120 = 1)	0	.900
Vapor Pressure (mm Hg)	@25C<1	M	elting Point			N	.A.
Vapor Density (AIR = 1)	N.A.	E	vaporation Ra	te (-)	N	.A.
Solubility in Water Negligi	ble	•					
Appearance and Odor Bright,	green oil						
SECTION III - FIRE AND I	EXPLOSION HA	ZARD	DATA				
Flash Point (Method Used)		Flamma	able Limits		LEL		UEL
>250C		N.A.			-		_
Extinguishing Media							
Water, dry chemica	als, foam or	carb	on dioxide				
Special Fire Fighting Proced	lures						
Fire fighters show	uld wear an	appro	oved self c	onta	ined breat	hing	g apparatus.
Unusual Fire and Explosion H	lazards						
Dense smoke							
SECTION IV - REACTIVITY	DATA						
Stability Conditi	ions to Avoid						
Stable	None						
Incompatibility (Materials to	Avoid)						
Strong oxidizing a	agents: hydr	ogen	peroxide,	chro	mic acid,	brom	ine.
Hazardous Decomposition or Pr	oducts						
By open flame: car	rbon monoxid	e, ca	rbon dioxi	de.			
Hazardous C	onditions to Av	roid					
Polymerization							
Will Not Occur None							
SECTION V - HEALTH HAZAR	RD DATA						
Threshold Limit Value							

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Swallowed: If person is conscious, give water or milk. Ingestion or vomiting may result in its aspiration which may cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause irritation or skin cracking.

Inhaled: Vapour or mist at concentrations exceeding ACGIH TLV may be irritating to the respiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of the fluid may cause lung injury (pneumonitis). Call a Doctor immediately.

Eye: Flush eyes with water at least for 15 minutes with eyelids open.

Skin: Wash thoroughly with soap and water.

Inhaled: If respiratory irritation occurs move person to fresh air. If irritation continues call a doctor.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer spilt product into another container. Absorb remaining residue with absorbents. e.g. sand, vermiculite.

Waste Disposal Method

The product is not considered dangerous or poisonous. Dispose of according to Federal, State or Local Government requirements.

Precautions to Be Taken in Handling and Storing

Keep container closed. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective GlovesEye ProtectionRubber or plastic oil resistant gloves.Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

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OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 24/07/1996
OMEGA 699	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 64741-88-4 5mg/m3 *Highly refined mineral oils** 64742-55-8 5mq/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) >330C 0.86 Vapor Pressure (mm Hg. Melting Point <-45C Vapor Density (AIR = 1) Evaporation Rate (-N.A. Solubility in Water Negligible Appearance and Odor Red colored liquid with bland odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL>177C (COC) N.A. Extinguishing Media Dry chemical or waterfog or CO2 foam. Special Fire Fighting Procedures Do not use water except as fog. Unusual Fire and Explosion Hazards None SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid. Hazardous Decomposition or Products Carbon monoxide and carbon dioxide from burning. Oxides of phosphorous from burning. Oxides of sulfur. Hazardous Conditions to Avoid Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Prolonged or repeated skin contact may cause dermatitis (skin irritation).

Emergency & First Aid Procedures

Eyes - Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin contact - Remove excess with cloth or paper. Wash thoroughly with soap and water. Inhalation - Remove victim to fresh air. Call a physician. If swallowed - Contact a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal Method

Dispose of in accordance with all applicable federal, state and local regulations.

Precautions to Be Taken in Handling and Storing

Do not handle or store at temperature over 38C.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special	
	N.A.	N.A.	
	Mechanical (General)	Other	
	N.A.	N.A.	

Protective GlovesEye ProtectionRubber or plastic oil resistant gloves.Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

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OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

LAST ACCESSED: 24/07/1996 IDENTITY(As Used on Label and List) OMEGA 747 SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 126-73-8 Tributylphosphate 0.2ppm Polydimethylsiloxane 9016-00-6 SECTION II - PHYSICAL CHARACTERISTICS Boiling Point >200C Specific Gravity (H20 = 1) 0.95 Vapor Pressure (mm Hg.) Melting Point <1 N.A. Vapor Density (AIR = 1) >1 Evaporation Rate (Butyl-Ac=1) <1 Solubility in Water Insoluble Appearance and Odor Dark purple/blue liquid and odorless. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. 182C N.A. Extinguishing Media Dry chemical, carbon dioxide, alcohol-type or all-purpose-type foam. Special Fire Fighting Procedures Use self-contained breathing apparatus and protective clothing. Unusual Fire and Explosion Hazards None SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Strong oxidizing agents Hazardous Decomposition or Products By open flame: Oxides of carbon, silicon, and phosphorous. Hazardous Conditions to Avoid Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA Threshold Limit Value

See section I hazardous ingredient.

Effects of Overexposure

Swallowing: No evidence of harmful effects from available information.

Skin absorption: No edvidence of harmful effects from available information.

Inhalation: Short-term harmful health effects are not expected from vapor generated at ambient temperature.

Skin contact: Brief contact is not irritating. Prolonged or repeated contact may cause discomfort and local redness.

Eye contact: Causes irritation, experienced as stinging and discomfort or pain. Excess redness and swelling of the conjunctive may occur.

Emergency & First Aid Procedures

Swallowing: No emergency care anticipated.

Skin: Wash skin with soap and water.

Inhalation: No emergency care anticipated.

Eyes: Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Soak up small spills with absorbent material. Larger spills should be collected for disposal. Avoid runoff to sewers or waterways.

Waste Disposal Method

Incinerate in a furnace where permitted under Federal State and local regulations.

Precautions to Be Taken in Handling and Storing

Causes eye irritation. Avoid contact with eyes. Wash thoroughly after handling.

Other Precautions

Liquid waste fluid can be incinerated; if spilled material is collected by absorption on a solid absorbent, the solid waste material could be buried in a landfill. This fluid is insoluble in water, and will float on the surface; if a large spill occurs, avoid drainage to sewers or to natural waters.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special	
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.

Protective Gloves

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

N.A.

Work/Hygienic Practices

Remarks

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OMEGA MANUFACTURING DIVISION

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18/F, GUARDIAN HOUSE, HONG KONG.

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IDENTITY(As Used on Label and List)

OMEGA 754

LAST ACCESSED: 24/07/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) Recommended CAS NO TLVHighly refined mineral oils** 64742-65-0 5mg/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 0.9 N.A. Vapor Pressure (mm Hg.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Blue colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LEL UEL Above 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Strong oxidizing agents: hydrogen peroxide, chromic acid, bromine. Hazardous Decomposition or Products By open flame: Carbon monoxide, carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathiong oil mist

Ventilation	Local Exhaust	Special	
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protection	

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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LAST ACCESSED: 24/07/1996 IDENTITY(As Used on Label and List) OMEGA 756

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 64742-65-0 5mg/m3 *SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (mm Hg.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Amber colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. Above 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents. Hazardous Decomposition or Products Of combustion, evolution of fumes, smoke and carbon dioxide. Hazardous Conditions to Avoid Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro - intestinal irritation, nausea. vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin -Thoroughly wash area with soap and water. Remove clothing and launder before re-use. if swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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LAST ACCESSED: 24/07/1996 IDENTITY(As Used on Label and List) OMEGA 757 SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended Highly refined mineral oils** 64742-65-0 5mg/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (mm Hg.) Melting Point N.A. N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Amber colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. Above 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents. Hazardous Decomposition or Products Of combustion, evolution of fumes, smoke and carbon dioxide. Hazardous Conditions to Avoid Polymerization

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

Will Not Occur

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

None

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro - intestinal irritation, nausea. If swallowed - Call a physician immediately.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin -Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List) **LAST ACCESSED:** 24/07/1996

OMEGA 759							
SECTION I - HAZARDOUS IN	NGREDIENTS/I	DENTI	TY INFORMA	TION			
Hazardous Components						Ot	ther Limits
(Specific Chemical Identity:	Common Name(s))	CAS NO		<i>TLV</i>	Re	ecommended
Highly refined base oil	**		64742-53-6		5 mg/m3 *	_	
SECTION II - PHYSICAL CH	HARACTERISTI	CS					
Boiling Point	260C	s	Specific Gravi	ity (H	120 = 1)	0.	88
Vapor Pressure (mm Hg.)	N.A.	М	Melting Point			N.	A.
Vapor Density (AIR = 1)	>5	E	Evaporation Ra	ate (-)	N.	A.
Solubility in Water Negligi	.ble						
Appearance and Odor Off-whi	te liquid w	ith m	ineral oil	odor	•		
SECTION III - FIRE AND	EXPLOSION H	AZARD	DATA				
Flash Point (Method Used)		Flamm	nable Limits		LEL		UEL
Above 100 (PMCCC)		N.A.			_		_
Extinguishing Media							
Dry chemical, car	bon dioxide	, foan	m, sand.				
Special Fire Fighting Proceed	lures						
Fire fighters sho	uld wear an	appro	oved self c	onta	ined breath	ning	apparatus.
Unusual Fire and Explosion F	Hazards						
Dense smoke							
SECTION IV - REACTIVITY	DATA						
Stability Condit	ions to Avoid						
Stable	None						
Incompatibility (Materials to	Avoid)						
Avoid contact wit	h strong ox:	idizir	ng agents.				
Hazardous Decomposition or Pr	roducts						
Upon combustion -	fumes, smol	ke and	d carbon di	oxid	e.		
	onditions to A	void					
Polymerization							
Will Not Occur	None						
SECTION V - HEALTH HAZAI	RD DATA						
Threshold Limit Value							

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Eyes - can cause irritation. Skin - Prolonged or repeat contact can cause moderate irritation. Swallowing - Can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excessive water until irritation subsides. On skin - thoroughly flush area with soap and water. If swallowed - Call a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand on remaining oil.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 11/02/2000
OMEGA 767	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components			Other Limits
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Polybutene	9003-29-6	-	-
Distillates (petroleum), hydrotreated light	_	5mg/m3 *	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	Approx. 260C	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (mm Hg)	<0.01 @25C	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Negligible

Appearance and Odor Dark amber liquid with mineral oil odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
70C	N.A.	-	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Incomplete combustion and high temperature thermal decomposition may promote oxides of carbon, nitrogen, and sulfur.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None
SECTION V - HEALTH HA	ZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - Can cause irritation. Skin - Prolonged or repeated contact can cause moderate irritation. Swallowing - Can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill at source, use dike to retain and pull oil to salvage tank. Use sand or - Exclude persons from area not wearing protective equipment. Stop spill absorbent on remaining oil and shovel into container.

Waste Disposal Method

Dispose of according to local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mists.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
N.A.		N.A.
		1

Protective Gloves					Eye Protection		
Rubber gloves.	or	plastic	oil	resistant	Safety goggles and full-face shield.		

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist

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Effects of Overexposure

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

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LAST ACCESSED: 24/07/1996 IDENTITY(As Used on Label and List) OMEGA 777 SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 64742-65-0 Highly refined mineral oils** 5mg/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (mm Hg. N.A. Melting Point N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and Odor Green colored liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LEL UELAbove 100C (PMCC) N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents. Hazardous Decomposition or Products Of combustion, evolution of fumes, smoke and carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro - intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. Remove clothing and launder before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 03/06/1997
OMEGA 778	

OMEGA 778 SECTION I - HAZARDO		סבית באייים / די	ידייואים	·V TNE∩DMX™T	ON	
Hazardous Components	JUB ING.	KEDIENIS/II	DENIII	I INFORMATI	ON	Other Limits
(Specific Chemical Ider	mmon Name(s),	CAS NO	TLV	Recommended		
Synthetic polyalpha	aolefin		(58037-01-4	5mg/m3 *	-
SECTION II - PHYSIC	CAL CHA	RACTERISTI	CS			
Boiling Point	;	>250C	Sp	ecific Gravity	r(H20 = 1)	0.90
Vapor Pressure (mm Hg	r.) .	<0.01 @25C	Me	lting Point		N.A.
Vapor Density (AIR =	1)]	N.A.	Ev	aporation Rate	(N.A.)	N.A.
Solubility in Wa	iter Neg	ligible				
Appearance and O	<i>dor</i> Nat	ural fluor	escent	colored li	quid.	
SECTION III - FIRE	AND EX	PLOSION HA	ZARD 1	DATA		
Flash Point (Met	hod Used)	Flamma	ble Limits	LEL	UEL
>215C					N.A.	N.A.
Extinguishing Media					•	
Dry chemical,	, carboı	n dioxide,	foam,	sand.		
Special Fire Fighting	Procedu	res				
Fire fighters	should	d wear an a	approv	ed self con	tained breath	ing pparatus.
Unusual Fire and Expl						
None expected	d. Auto	ignition te	empera	ture is in	excess of 450	C.
SECTION IV - REACT:	IVITY D	ATA				
-	Condition	ns to Avoid				
Stable		one				
Incompatibility (Mater:	ials to A	lvoid)				
Strong oxidi	izing a	gents: hydi	rogen	peroxide, c	hromic acid,	bromine.
Hazardous Decompositio	n or Pro	ducts				
Incomplete opromote oxides of					hermal decomp phorus.	position may
Hazardous	Con	ditions to Av	roid			
nazardous						
Polymerization Will Not Occur		None				

TLV for oil mist is 5mg/m3 for a daily 8-hour exposure.

Swallowed: If swallowed and the person is conscious give water or milk. Ingestion or subsequent vomiting may result in its aspiration which could cause pneumonitis.

Eye: May cause moderate eye irritation.

Skin: Prolonged or frequent contact may cause skin irritation or cracking.

Inhaled: Vapour or mist at concentrations exceeding TLV may be irritating to the respiratory tract.

Emergency & First Aid Procedures

Swallowed: Do not induce vomiting. Aspiration of fluid may cause lung injury (pneumonitis). Call a physician immediately.

Eye: Rinse eye immediately with water for at least 15 minutes. In case of irritation seek medical advice.

Skin: Wash affected area with soap and water. Do not use solvents.

Inhaled: If respiratory irritation occurs move the person to fresh air. If irritation continues call a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Prevent entry into sewers and waterways, product may be slippery.

Waste Disposal Method

Dispose of as per local regulations.

Precautions to Be Taken in Handling and Storing

As a precaution keep away from strong oxidising agents and sources of heat or ignition. Keep container closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Rubber or plastic oil resistant gloves.

Eye Protection

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Protective Gloves

N.A.

Remarks

* TLV for oil mist.

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OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 10/01/1997
OMEGA 790	

OMEGA 79	0							
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION								
Hazardous Components						0	ther Limits	
(Specific Chemical Ide	entity:	Common Name(s))	CAS NO	:	rlv	R	ecommended
Medicinal paraffin	n oil			8042-47-5		*5mg/m3	_	
N'N-Bis(2-Hydroxy	ethyl) lauramide		120-40-1		_	-	
SECTION II - PHYSI	ICAL CI	HARACTERIST:	ICS					
Boiling Point		>250C		Specific Gravit	y (I	120 = 1)	0	.885
Vapor Pressure (mmHg	@25C)	<1	i	Melting Point			N	.A.
Vapor Density (AIR =	: 1)	N.A.		Evaporation Rat	e (1	3.Acet =1)	N	.A.
Solubility in Water N	Tegligi	.ble						
Appearance and Odor O	ff-whi	te colored	oil					
SECTION III - FIRE	E AND I	EXPLOSION H	AZARI	DATA				
Flash Point (Method)	Used)		Flam	mable Limits LEL		LEL		UEL
> 150C					N.A.			N.A.
Extinguishing Media								
Dry chemical	., cark	oon dioxide	, foa	m, sand.				
Special Fire Fightin	g Proce	dures						
Fire fighters should wear an approved self contained breathing apparatus.								
Unusual Fire and Explosion Hazards								
Dense smoke								
SECTION IV - REACTIVITY DATA								
Stability	ability Conditions to Avoid							
Stable		None						
Incompatibility (Materials to Avoid)								
Strong oxidizing agents: hydrogen peroxide, chromic acid, bromine.								
Hazardous Decomposition or Products								
				temperaturen, sulfur ar			com	position may
Hazardous	Co	onditions to A	void					
Polymerization								
Will Not Occur		None						
SECTION V - HEALTH HAZARD DATA								

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

Page 1

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves. Saftey goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

* TLV for mineral oil mist

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LAST ACCESSED: 25/09/1996

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OMEGA 101 SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 107-21-1 Ethylene glycol 50ppm * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 0.98 100C Vapor Pressure (mm Hg.) Melting Point 17.54 -10C Vapor Density (AIR = 1) Evaporation Rate (water=1 <1 Solubility in Water Disperable Appearance and Odor Light brown, semi liquid dispersion. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LEL UELNone N.A. Extinguishing Media N.A. Special Fire Fighting Procedures Unusual Fire and Explosion Hazards N.A. SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Hazardous Decomposition or Products None Hazardous Conditions to Avoid Polymerization

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

Will Not Occur

See Section I hazardous ingredients.

Belolw -10C.

Effects of Overexposure

N.A.

Emergency & First Aid Procedures

Skin and/or eyes contact - flush with water for 15 minutes.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Mop up spills with inert absorbent. Rinse contaminated area with water.

Waste Disposal Method

Dispose as normal garbage. Flush to drain with plenty of water.

Precautions to Be Taken in Handling and Storing

Keep containers tightly closed when not in use. Keep from freezing.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection			
None required for normal use.	None required for normal use.			

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* Ceiling value.

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IDENTITY (As Used on Label and List) OMEGA 120

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Hazardous Components				Other Limits	
(Specific Chemical Identity: Co	CAS NO	TLV	Recommended		
d-Limonene		5989-27-5	_	_	
Acrylic acid polymer (as	dust)	9003-01-4	10 mg/m3	_	
Sodium hydroxide	1310-73-2	CL 2mg/m3	_		
Propylene glycol		57-55-6	_	TDLo=79mg/kg	
PCMX	88-04-0	_	_		
Pumice (as dust)	_	10mg/m3	_		
SECTION II - PHYSICAL CHARACTERISTICS					
Boiling Point	84.4C - 86.1C	Specific Gravity (H20 = 1)		1.0	
Vapor Pressure (mmHg)	N.A.	Melting Point		N.A.	
Vapor Density (AIR = 1)	N.A.	Evaporation Rate	N.A.		

Solubility in Water Soluble

Appearance and Odor Green lotion with pumice and citrus scent.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
>61C	-	N.A.	N.A.

Extinguishing Media

Foam, carbon dioxide, or dry chemical.

Special Fire Fighting Procedures

Do not use water, treat as oil fire.

Unusual Fire and Explosion Hazards

None known.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agents.

Hazardous Decomposition or Products

None required

Work/Hygienic Practices

Hazardous	Conditions to Avoid			
Polymerization				
Will Not Occur	None			
SECTION V - HEALTH H	HAZARD DATA			
Threshold Limit Value				
See Secti	ion I hazardous ingre	edients.		
Effects of Overexposure				
Skin irritatio	on following excessi	ve use.		
Emergency & First Aid Pro	ocedures			
Eyes: Flush w	ith water 15 minutes	. Obtain medica	l attention.	
Skin: Non-irr	itating under normal	usage.		
Ingestion: Di physician.	rink water to dil	ute. Do not	induce vomiting. Consult	
Inhalation: No	ot applicable under 1	normal use cond	ition.	
SECTION VI - PRECAUT	TIONS FOR SAFE HANDLE	ING AND USE		
Steps to Be Taken In Cas	e Material Is Released or	· Spilt		
Dike spill and	d absorb with non-fla	ammable absorbe	nt material.	
Waste Disposal Method				
Dispose of in	accordance with app	licable local,	state and federal	
regulations.				
Precautions to Be Taken .	in Handling and Storing			
Store below 3	8C.			
Other Precautions				
N.A.				
SECTION VII - CONTRO	OL MEASURES			
Respiratory Protection (Specify Type)			
None required	for normal use.			
Ventilation Lo	Local Exhaust		Special	
N	A.		N.A.	
Me	echanical (General)		Other	
N	.A.		N.A.	
Protective Gloves		Eye Protection		
Piotective Gloves				

Remarks

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LAST ACCESSED : 24/07/1996

OMEGA 901

SECTION T	ר מאסאסטטונק	TNICIDENTENITO	/TDGMTTTV	TNFORMATTON

Hazardous Components		Other Limits
(Specific Chemical Identity : Common Name (s))	CAS NO. TLV	Recommended
Solvent naphtha (petroleum), medium	64742-88-7 25ppm	
aliphatic		

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	*184C	Specific Gravity (H20 = 1)	0.828
Vapor Pressure (mm Hg.)	*0.5	Melting Point	N.A.
Vapor Density (AIR = 1)	*5.5	Evaporation Rate (N-buty1 A.)	*0.08

Solubility in Water Negligible

Appearance and Odor Blue liquid with solvent odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
60C TCC	*	1	7

Extinguishing Media

Drychemical or waterfog or CO2 or foam or sand/earth.

Special Fire Fighting Procedures

Dense smoke. Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None
T	

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Hazardous Decomposition or Products

Carbon monoxide and carbon dioxide from burning. Oxides of nitrogen. Oxides of sulfur. SO2/H2S, depending upon decomposition conditions.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredient.

Effects of Overexposure

May cause skin and eye irritation. May cause headache and dizziness.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin contact: Wash with water and soap. Inhalation: Remove to fresh air and if victim is not breathing, give artificial respiration. Call a physician immediately. If Swallowed: Call a physician immediately. Do not induce vomiting.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Avoid all ignition sources such as flames and sparks. Insure good ventilation. If volume is significant, transfer into containers for disposal. Seal containers tightly. Absorb on an inert ingredient such as earth, sand or vermiculite. Sweep up and dispose of according to Federal, State and local regulations.

Vaste Disposal Method

Dispose of in accordance with all applicable Federal, State and local regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep away from feed and food products. If fumes are present see section VII. Avoid skin and eye contact. Do not swallow. Do not inhals.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Solvent type respirator is recommended if the TLV of the product or any component is exceeded.

Ventilation	Local Exhaust	Special
	Required	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Plastic, rubber, solvent resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* Based on solvent

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

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			FAX: (852)257			
IDENTITY(As Used on Label and List)			LAST ACCESSED	LAST ACCESSED: 24/07/1996		
OMEGA 902						
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION						
Hazardous Components					Other Limits	
(Specific Chemical Identity	: Common Name(s	s))	CAS NO	TLV	Recommended	
Polyethylene oxide			25322-68-3	_	_	
Isopropyl alcohol			67-63-0	400ppm	_	
SECTION II - PHYSICAL	CHARACTERIST	'ICS				
Boiling Point	~100C		Specific Gravity (H20 = 1)	1	
Vapor Pressure (mm Hg.)	N.A.		Melting Point		N.A.	
Vapor Density (AIR = 1)	N.A.		Evaporation Rate (-)	N.A.	
Solubility in Water Compl	ete					
Appearance and Odor Purple	e colored th	in l	iquid with slipp	ery feeling	, lilac odor.	
SECTION III - FIRE AND	EXPLOSION H	AZAR	D DATA			
Flash Point (Method Used)		Fla	mmable Limits	LEL	UEL	
None N.A.			Α.	_	-	
Extinguishing Media						
N.A.						
Special Fire Fighting Prod	cedures					
None	None					
Unusual Fire and Explosion Hazards						
None						
SECTION IV - REACTIVIT	Y DATA					
Stability Cond:	tions to Avoid					
Stable	None					
Incompatibility (Materials	to Avoid)					
None	None					
-	Hazardous Decomposition or Products					
Upon combustion: Carbon dioxide and carbon monoxide may be evolved.						
			ditions to Avoid			
Polymerization						
Will Not Occur			None			
SECTION V - HEALTH HAZARD DATA						
Threshold Limit Value						

See section I hazardous ingredients.

Effects of Overexposure

Mild skin irritation.

Emergency & First Aid Procedures

Eyes: Flush with water for 15 minutes.

Skin: Wash with water.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate, mop up spills with absorbent. Flush contaminated area with plenty of water.

Waste Disposal Method

Send to an approved site or dispose of in accordance with State and local regulation regarding pollution.

Precautions to Be Taken in Handling and Storing

Keep container tightly sealed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Local Exhaust		
	N.A.	N.A.		
	Mechanical (General)	Mechanical (General)		
	N.A.		N.A.	
Protective Gloves		Eye Protection		

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

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Threshold Limit Value

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 24/07/1996
OMEGA 903	

OMEGA 903	·				
SECTION I - HAZARDOUS IN	GREDIENTS/I	DENT	ITY INFORMATION	Ī	
Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLV Recommended					
Refined light napthenic	distillate	**	64741-96-4	5mg/m3 *	
SECTION II - PHYSICAL CI	HARACTERIST	ICS			
Boiling Point	N.A.		Specific Gravity (H20 = 1)		0.954
Vapor Pressure (mm Hg.)	N.A.	1	Melting Point		N.A.
Vapor Density (AIR = 1)	N.A.		Evaporation Rate (·-)	N.A.
Solubility in Water Negligi	.ble				
Appearance and Odor Purple	colored lic	quid	with mineral o	il odor.	
SECTION III - FIRE AND	EXPLOSION H	AZARI	DATA		
Flash Point (Method Used)		Flam	mable Limits	LEL	UEL
Above 140C (C.O.C.)		N.A	•	_	-
Extinguishing Media					
Dry chemical, wat		on d	ioxide, foam, s	sand/earth.	
Special Fire Fighting Proce	dures				
Dense smoke. Fi breathing apparat	_	s sł	nould wear ar	approved	self contained
Unusual Fire and Explosion	Hazards				
Dense smoke.					
SECTION IV - REACTIVITY	DATA				
Stability Condition	ons to Avoid				
Stable	None				
Incompatibility (Materials to	Avoid)				
Strong oxidizers such as hydrogen peroxide, chromic acid, bromine.					
Hazardous Decomposition or Products					
CO and CO2 from burning; oxides of barium, sulfur, nitrogen; SO2/H2S depending upon decomposition conditions					
Hazardous	Conditions to Avoid				
Polymerization					
Will Not Occur None					
SECTION V - HEALTH HAZAI	RD DATA				

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes. Call a physician immediately. Skin contact: Remove excess with cloth or paper. Wash thoroughly with soap and water. Inhalation: Remove victim to fresh air. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves. Saftey goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Protective Gloves

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 23/07/1996
OMEGA 904	

OMEGA 90	4								
SECTION I - HAZARDO	OUS IN	GREDIENTS/I	DENTI	TY INFORMAT	ION				
Hazardous Components							Other :	Limits	
(Specific Chemical Ide	entity:	Common Name(s))	CAS NO	TLV		Recomm	ended	
Highly refined mir	neral (oil**		64745-65-0	5mg/	m3 *	_		
SECTION II - PHYSI	CAL C	HARACTERIST	ICS						
Boiling Point		N.A.	٤	Specific Gravit	ty (H20 =	1)	0.9	0.9	
Vapor Pressure (mm Hg.)	N.A.	ı	Melting Point			N.A.		
Vapor Density (AIR = 1	.)	N.A.	I	Evaporation Rat	te (-)	N.A.		
Solubility in Water N	egligi	.ble							
Appearance and Odor C	lear a	mber colore	ed li	quid with mi	neral c	oil odo	r.		
SECTION III - FIRE	AND I	EXPLOSION H	AZARD	DATA					
Flash Point (Method U	Ised)		Flamm	nable Limits	LEL		UEL		
Above 190C (COC)		N.A.		_		_		
Extinguishing Media					_		_		
Dry chemical	, wate	erfog, CO2,	foam	or sand/ea	rth.				
Special Fire Fighting									
Dense smoke breathing a			s sh	ould wear	an app	proved	self o	contained	
Unusual Fire and Expl	losion H	Hazards							
Dense smoke	Dense smoke								
SECTION IV - REACT	TIVITY	DATA							
Stability	Stability Conditions to Avoid								
Stable		Avoid breat	hing	oil-mists.					
Incompatibility (Mater	rials to	Avoid)							
Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.									
Hazardous Decompositio									
Carbon monoxide and carbon dioxide from burning. Aldehydes. Ketones.									
Hazardous	Conditions to Avoid								
Polymerization									
Will Not Occur None									
SECTION V - HEALTH	HAZAF	RD DATA							
Throughold Timit 17-1									

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin contact: Remove excess with cloth or paper. Wash thoroughly with soap and water. Inhalation: Remove victim to fresh air. If Swallowed: Contact a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal Method

Dispose of in accordance with all applicable federal, state and local regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire. Keep out of reach of children.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

Eye Protection

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Rubber or plastic oil resistant gloves.

Other Protective Clothing or Equipment

None required.

Work/Hygienic Practices

M A

Protective Gloves

Remarks

- * TLV for mineral oil mist.
- ** contains less than 3% DMSO extract as measured by IP 346.

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Safety goggles and full face shield

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 21/11/1996
OMEGA 905	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components				
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended	
Highly refined mineral oil**	64742-65-0	5mg/m3 *	_	
Butyl cellosolve	111-76-2	25 ppm	_	
Lead napethenate	61790-14-5	0.1mg(Pb)/m 3	N.A.	

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H20 = 1)	1.09
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (-)	N.A.

Solubility in Water Emulsion

Appearance and Odor Green colored liquid with hydrocarbon odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
210C	N.A.	_	_

Extinguishing Media

Dry chemical, carbon dioxide, foam, sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Of combustion, fumes, smoke and carbon dioxide may evolved.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - Prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin -Thoroughly wash area with soap and water. Remove clothing and launder clothing before re-use. If swallowed - Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper, absorbent and transfer to hood. Large spill - Exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand or absorbent on remaining oil and shovel into containers.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed w hen not in use. Keep away from heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves	•	Eye Protection	

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

Remarks

- * TLV for mineral oil mist.
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List) **LAST ACCESSED:** 16/10/1998

OMEGA 906				_	
SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Hazardous Components (Specific Chemical Identity:	Common Name(s))	CAS NO	TLV	Other Limits Recommended
Highly refined mineral	oils**		64742-53-6	5mg/m3 *	_
Diethanolamine			111-42-2		
SECTION II - PHYSICAL C	HARACTERIST	ICS			
Boiling Point	>200C	S	Specific Gravity ((H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	M	Melting Point		N.A.
Vapor Density (AIR = 1)	N.A.	E	Evaporation Rate ((Ether=1)	<1
Solubility in Water Miscib	le				
Appearance and Odor Dark at	mber liquid	with	mineral oil o	dor.	
SECTION III - FIRE AND EXPLOSION HAZARD DATA	1				
Flash Point (Method Used)		Flamm	mable Limits	LEL	UEL
174C, C.O.C.		N.A.			
Extinguishing Media				_	•
Dry chemical, car	bon dioxide	<u>,</u> foa	m, sand.		
Special Fire Fighting Proce	dures				
Fire fighters sho	ould wear an	appr	oved self cont	ained breatl	hing apparatus.
Unusual Fire and Explosion	Hazards				
Dense smoke.					
SECTION IV - REACTIVITY	DATA				
Stability Condit	ions to Avoid				
Stable	Avoid heati	ing to	o abnormal tem	perature.	
Incompatibility (Materials t	Incompatibility (Materials to Avoid)				
None					
Hazardous Decomposition or Products					
Toxic vapors may be produced upon burning.					
Hazardous	Conditions to	o Avoi			
Polymerization	olymerization				
Will Not Occur	Will Not Occur None				
SECTION V - HEALTH HAZA	SECTION V - HEALTH HAZARD DATA				
Threshold Limit Value					

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Harmful if swallowed or absorbed through skin. Causes mild skin irritation. May cause severe irritation to eyes.

Emergency & First Aid Procedures

Eyes - Flush with large amount of water, get medical attention.

Internal - Send for physician immediately.

Enternal - Wash affected area with soap and water.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Use a sweeping compound to contain spills. Then shovel up the sweeping compound and dispose of via normal garbage or waste disposal. Rinse contaminated area with water.

Waste Disposal Method

Dispose of in accordance with local and national regulations.

Precautions to Be Taken in Handling and Storing

Store between 4C & 32C. Avoid contact with eyes, skin or clothing. Keep away form children.

Other Precautions

Do not store at extreme temperature. Keep from freezing.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protective Gloves		Eye Protec	tion

Rubber or plastic oil resistant gloves.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices
N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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Safety goggles and full face shield.

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IDENTITY(As Used on Label and List) **LAST ACCESSED:** 24/07/1996

IDENTITY (As Used on L OMEGA 90'		nd List)		LAST ACCESSE	±U: ∠4/(J//1996	
SECTION I - HAZARDO	OUS IN	GREDIENTS/I	DENT:	ITY INFORMATIO	Ŋ		
Hazardous Components							Other Limits
<u> </u>	(Specific Chemical Identity: Common Name(s)) CAS NO TLV Recommended					Recommended	
Highly refined min	neral (oils**		64742-65-0	5mg/m3	3 *	_
Diesel fuel					_		_
SECTION II - PHYSI	CAL CI	HARACTERIST	ICS				
Boiling Point		N.A.		Specific Gravity	(H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.		Melting Point			N.A.
Vapor Density (AIR = 1	!)	N.A.		Evaporation Rate	(-)]	N.A.
Solubility in Water No	egligi	ble					
Appearance and Odor An	mber c	olored liqu	id w	ith mineral o	il odor.	,	
SECTION III - FIRE	AND I	EXPLOSION HA	AZARI	DATA			
Flash Point (Method U	īsed)		Flam	mable Limits	LEL	-	UEL
100C			N.A.	·			
Extinguishing Media							
Dry chemical	<u>l, ca</u> r	bon dioxide	<u>,</u> fo	am, sand.			
Special Fire Fighting	g Proced	dures					
Fire fighters sho	ould we	ear an appro	oved	self containe	d breat	hing ar	paratus.
Unusual Fire and Expl	losion E	Hazards					
Dense smoke							
SECTION IV - REACT	TIVITY	DATA					
Stability	Conditi	ions to Avoid					
Stable		None					
Incompatibility (Mater	rials to	Avoid)					
Avoid contact	t with	strong oxi	dizi	ng agents.			
Hazardous Decompositio	on or Pr	roducts					
Upon combus	stion	- fumes, sm	okes	and carbon di	ioxide.		
Hazardous	Cc	onditions to A	void				
Polymerization							
Will Not Occur None							
SECTION V - HEALTH	HAZAF	RD DATA					
Throshold Limit Walue							

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Eyes - can cause irritation. Skin - prolonged or repeated contact can cause moderate irritation. Swallowing - can cause gastro-intestinal irritation, nausea, vomiting, diarrhea.

Emergency & First Aid Procedures

In eyes - Flush with excess water until irritation subsides. On skin - Thoroughly wash area with soap and water. if swallowed - Call physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Small spill - Absorb on paper absorbent and transfer to hood. Large spill - exclude persons from area not wearing protective equipment. Stop spill at source, use dike to retain and pump oil to salvage tank. Use sand on remaining oil and shovel into container.

Waste Disposal Method

Small spill - Destroy by incineration.

Large spill - Destroy by liquid incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away form heat and fire.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Saftey goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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IDENTITY(As Used on Label and List)

OMEGA 908

LAST ACCESSED: 24/07/1996

SECTION I - HAZARDOUS	INGREDIENTS/I	DEN	TITY INFORMATIO	NC		
Hazardous Components					Ot	her Limits
(Specific Chemical Identit	y: Common Name(s	;))	CAS NO	TLV	Re	ecommended
Cadmium sulphate			10124-36-4	_	T	DLo=3mg/kg
Oxalic acid			144-62-7	1 mg/m3	-	
Aluminium sulfate			10043-01-3	_	-	
SECTION II - PHYSICAL	CHARACTERIST	ICS				
Boiling Point	104C		Specific Gravity	(H20 = 1)	1	
Vapor Pressure (mm Hg.)	17		Melting Point		-	
Vapor Density (AIR = 1)	>1		Evaporation Rate	(Water=1)	~1	
Solubility in Water Soluk	ole					
Appearance and Odor Dark	purple solut:	ion				
SECTION III - FIRE AN	D EXPLOSION H	AZAR	D DATA			
Flash Point (Method Used)		Fla	mmable Limits	LEL		UEL
None	N.A.			-		
Extinguishing Media		<u> </u>		•	<u> </u>	
Dry chemical, c	arbon dioxide	, fo	oam, sand.			
Special Fire Fighting Proc	edures					
Fire fighters sho	ould wear an a	appro	oved self cont	ained breath:	ing	apparatus.
Unusual Fire and Explosion Hazards						
Dense smoke						
SECTION IV - REACTIVI	TY DATA					
Stability Conditions to Avoid						
Stable None						
	to Avoid)					
Incompatibility (Materials						
Incompatibility (Materials None						
None	Products					
		ide	& carbon mono	xide may evol	ved	•
None Hazardous Decomposition or Upon combustion Hazardous				xide may evol	ved	
None Hazardous Decomposition or Upon combustion	: Carbon diox			xide may evol	ved	<u>. </u>

Threshold Limit Value

See section I hazardous ingredients.

Effects of Overexposure

Caustic and corrosive to skin, mucous membrane. Ingestion may cause gastro enteritis with vomiting.

Emergency & First Aid Procedures

External: Wash with water and soap.

Internal: Call physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Ventilate, mop up spills with absorbent. Flush contaminated area with plenty of water.

Waste Disposal Method

Send to an approved site or dispose of in accordance with State and local regulation regarding pollution.

Precautions to Be Taken in Handling and Storing

Use non-sparking tools - keep in a cool dry place. Keep containers tightly closed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Not required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection
Plastic or Rubber	Face shield or goggles

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee for any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

IDENTITY(As Used on Label and List)
OMEGA 909

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

LAST ACCESSED: 23/07/1996

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 64742-65-0 Highly refined mineral oils** 5mg/m3 * SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) N.A. 0.9 Vapor Pressure (mm Hg.) N.A. Melting Point N.A. Vapor Density (AIR = 1) Evaporation Rate (-N.A. N.A. Solubility in Water Negligible Appearance and odor Clear amber liquid with mineral oil odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LEL UELAbove 190C (COC) N.A. Extinguishing Media Dry chemical, waterfog, CO2, foam or sand/earth. Special Fire Fighting Procedures Dense smoke. Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Hazardous Decomposition or Products

Carbon monoxide and carbon dioxide from burning. Aldehydes. Ketones.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

None when used with good personal hygiene practices. May otherwise cause skin and eye irritation upon prolonged or repeated contact.

Emergency & First Aid Procedures

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician. Skin contact: Remove excess with cloth or paper. Wash thoroughly with soap and water. Inhalation: Remove victim to fresh air. If Swallowed: Contact a physician.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal Method

Dispose of in accordance with all applicable federal, state and local regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat and fire. Keep out of reach of children.

Other Precautions

Avoid eye contact and prolonged and repeated skin contact. Wear impervious clothing and boots.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust		Special
	N.A.		N.A.
	Mechanical (General)		Other
	N.A.		N.A.
Protostino Cloros		Erro Protostion	

Protective Gloves	Eye Protection	
Rubber	Safety glasses and full face shield	

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist
- ** contains less than 3% DMSO extract as measured by IP 346.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee for any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

Threshold Limit Value

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 16/08/1996
OMEGA 915	

	CS S ₁	CAS NO 64742-54-7 68649-42-3 Specific Gravity Melting Point	TLV 5mg/m3 *	Other Limits Recommended -	_
(Specific Chemical Identity: Common Name(s)) Hydrotreated distillates, heavy paraffinic** Zinc alkyl dithiophosphate SECTION II - PHYSICAL CHARACTERISTIC Boiling Point N.A. Vapor Pressure (mm Hg.) N.A. Vapor Density (AIR = 1) N.A. Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	CS S1	64742-54-7 68649-42-3 Specific Gravity	5mg/m3 * -		_
Hydrotreated distillates, heavy paraffinic** Zinc alkyl dithiophosphate SECTION II - PHYSICAL CHARACTERISTIC No. A. Wapor Pressure (mm Hg.) N.A. Vapor Density (AIR = 1) N.A. Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZE Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	CS S1	64742-54-7 68649-42-3 Specific Gravity	5mg/m3 * -	Recommended -	
paraffinic** Zinc alkyl dithiophosphate SECTION II - PHYSICAL CHARACTERISTIC Boiling Point N.A. Vapor Pressure (mm Hg.) N.A. Vapor Density (AIR = 1) N.A. Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	CS SI	68649-42-3 Specific Gravity	-	-	
SECTION II - PHYSICAL CHARACTERISTIC Boiling Point N.A. Vapor Pressure (mm Hg.) N.A. Vapor Density (AIR = 1) N.A. Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	CS S1	Specific Gravity	_	_	
Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	S ₁				
Vapor Pressure (mm Hg.) N.A. Vapor Density (AIR = 1) N.A. Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	Ме		4		
Vapor Density (AIR = 1) Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media		(elting Point	(H20 = 1)	1.098	
Solubility in Water Insoluble Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	E			N.A.	
Appearance and Odor Dark brown liquid SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) Flash Flash Point (Method Used) Flash Flash Point (Method Used) Flash		Evaporation Rate	(-)	N.A.	
SECTION III - FIRE AND EXPLOSION HAZ Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media					
Flash Point (Method Used) 150C (C.O.C.) Extinguishing Media	\ 				
150C (C.O.C.) Extinguishing Media	ZARD	DATA			
Extinguishing Media	Flamma	mable Limits	LEL	UEL	
	_		N.A.	N.A.	
Dry chemical, carbon dioxide,					
	foa	m and water	fog		
Special Fire Fighting Procedures					
Fire fighters should wear an	appr	roved self co.	ntained breat	thing appara	itus.
Unusual Fire and Explosion Hazards	_				_
Dense smoke					
SECTION IV - REACTIVITY DATA					
Stability Conditions to Avoid					
Stable Store below	66C.	·			
Incompatibility (Materials to Avoid)	_				_
Strong oxidizing agents					
Hazardous Decomposition or Products	_			_ _	_

Hazardous Conditions to Avoid	_				_
Polymerization	Polymerization				
Will Not Occur None					
SECTION V - HEALTH HAZARD DATA					

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

May cause skin & eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately. Skin contact: Wash thoroughly with soap and water. Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Saftey goggles and full face shield

Rubber or plastic oil resistant gloves.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.
- *** Heating this material may produce H2S at temperatures greater than 66C.

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and boron. Incomplete combustion can produce carbon monoxide.

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 24/07/1996
OMEGA 917	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) TLVCAS NO Recommended 115-86-6 3 mg/m3Triphenyl phosphate Phenyl isopropylated, phosphate 68937-41-7 SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 243C 1.15 Vapor Pressure (mm Hg.) Melting Point N.A. N.A. Vapor Density (AIR = 1)Evaporation Rate (But-Acet=1) 10 <1 Solubility in Water Less than 0.01% Appearance and Odor Fluorescent yellow-green liquid with no odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) LEL Flammable Limits UEL Above.198C. (PMCC) N.A. N.A. Extinguishing Media Dry chemical, carbon dioxide, foam, sand. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke, phosphorus compound fumes. SECTION IV - REACTIVITY DATA Conditions to Avoid Stability Stable None Incompatibility (Materials to Avoid) Strong mineral acids, oxidizing agents Hazardous Decomposition or Products Carbon dioxide, phosphorus compound fumes and carbon monoxide Conditions to Avoid Hazardous Polymerization Will Not Occur None SECTION V - HEALTH HAZARD DATA Threshold Limit Value

See Section I hazardous ingredient.

Effects of Overexposure

May cause irritation to skin and eyes. Ingestion may cause nausea and vomiting.

Emergency & First Aid Procedures

Skin/Eye contact: Wash with copious amounts of water.

Ingestion: Get medical attention.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Absorb spillage with insert absorbent. Wash contaminated area with large amount of water.

Waste Disposal Method

Dispose of according to local, State or Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed when not in use.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required for normal use.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves	Eye Protection	
Plastic or rubber.	Safety goggles and full face shield.	

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee for any kind, express or implied, and we assume no responsibility for any loss, damage, expense, direct or or consequential, arising out of their use.

Threshold Limit Value

Effects of Overexposure

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements. OMEGA MANUFACTURING DIVISION

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IDENTITY(As Used on Label an	nd List)	LAST ACCESSE	D: 15/06/199	98
OMEGA 929				
SECTION I - HAZARDOUS IN	GREDIENTS/IDEN	TITY INFORMATION	1	
Hazardous Components				Other Limits
(Specific Chemical Identity:	Common Name(s))	CAS NO	TLV	Recommended
Naphtha (petroleum),hydr **	otreated heav	y 64742-48-9	5mg/m ³	_
SECTION II - PHYSICAL C	HARACTERISTICS			
Boiling Point	N.A.	Specific Gravity	(H20 = 1)	0.9
Vapor Pressure (mm Hg.)	N.A.	Melting Point		N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate	(-)	N.A.
Solubility in Water Negli	gible			
Appearance and Odor Dark	brown colored	liquid with whi	te spirit od	dor.
SECTION III - FIRE AND	EXPLOSION HAZA	RD DATA		
Flash Point (Method Used)	Fla	ammable Limits	LEL	UEL
45C (PMCC)	N.	Α.	_	-
Extinguishing Media				
Dry chemical, carbon dioxide, foam, sand.				
Special Fire Fighting Procedures				
Fire fighters sho		proved self con	tained breat	thing apparatus.
Unusual Fire and Explosion Hazards				
Dense smoke				
SECTION IV - REACTIVITY				
- I	Conditions to Avoid			
Stable None Incompatibility (Materials to Avoid)				
Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents.				
Hazardous Decomposition or Products				
By open flame: Carbon monoxide, carbon dioxide				
	Conditions to Avoid			
Polymerization	ı			
Will Not Occur	Nill Not Occur None			
SECTION V - HEALTH HAZAI	RD DATA			

TLV for mineral oil mist is $5\,\mathrm{mg/m^3}$ for a daily 8-hour exposure.

Eyes - Can cause severe irritation redness and tearing. Skin - Prolonged exposure may cause moderate irritation and dermatitis. Breathing - cause dizziness and light headedness. Swallowing - can cause gastro-intestinal irritation.

Emergency & First Aid Procedures

In eyes - Flush with large amount of water, get medical attention. On skin - Thoroughly wash exposed area with soap and water. Swallowed - Get medical attention. If breathed - remove patient to fresh air. If breathing is difficult, administer oxygen.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Eliminate all ignition sources.

Small spill - Absorb on paper, absorbent and move to hood. Allow to evaporate.

Large spill - Exclude person from area not wearing protective equipment.

Stop spill at source, dike to retain spill, pump to salvage tank. Use sand or absorbent on remain material.

Waste Disposal Method

Small spill - Allow volatile portion to evaporate in hood. Destroy remaining by burning.

Large spill - Destroy by incineration with off-gas scrubber.

Precautions to Be Taken in Handling and Storing

Keep container closed when not in use. Keep away from heat, fire an ignition sources.

Other Precautions

Avoid eye contact, repeated or prolonged skin contact, wear impervious clothing.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

If TLV of material exceeded, use self-contained breathing apparatus with full facepiece in pressure demand.

Ventilation	Local Exhaust	Special
	Required	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

- * TLV for mineral oil mist.
- ** Contains less than 0.1% W/W benzene.

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TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 22/08/1997
OMEGA 990	

OMEGA 990					
SECTION I - HAZARDOUS IN	GREDIENTS/I	DENTI:	TY INFORMATION		
Hazardous Components					Other Limits
(Specific Chemical Identity: (Common Name(s)) (CAS NO	TLV	Recommended
Petroleum Distillates			8008-20-6	100 ppm	-
SECTION II - PHYSICAL CH	ARACTERISTI	CS			
Boiling Point	185C	Si	pecific Gravity (H20 = 1)	0.805
Vapor Pressure (Torr)	1	М	elting Point		45
Vapor Density (AIR = 1)	6.1	.1 Evapor		vaporation Rate (N.A.)	
Solubility in Water Negligible					
Appearance and Odor Amber, clear liquid with petroleum odor.					
SECTION III - FIRE AND EXPLOSION HAZARD DATA					
Flash Point (Method Used)		Flamma	able Limits	LEL	UEL
44C			N.A.	N.A.	
Extinguishing Media					
Dry chemical, carbon dioxide, foam, sand.					
Special Fire Fighting Procedures					
Fire fighters should wear an approved self contained breathing apparatus.					
Unusual Fire and Explosion Hazards					

Unusual Fire and Explosion Hazards

Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum because product can be ignited explosively.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	None

Incompatibility (Materials to Avoid)

Strong oxidizing agents such as: Hydrogen peroxide, chromic acid, bromine

Hazardous Decomposition or Products

Various hydrocarbons, carbon monoxide, carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients.

Effects of Overexposure

May cause skin and eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 minutes. Call physician immediately. Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A. If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Solvent type respirator.

Ventilation	Local Exhaust	Local Exhaust	
	Required		N.A.
	Mechanical (General)		Other
	Required		N.A.
Protective Gloves	<u> </u>	Eye Protection	-

Rubber or plastic oil resistant gloves

Eye Protection

Safety gogges and full face shield.

Other Protective Clothing or Equipment

Impervious clothing and boots.

Work/Hygienic Practices

N.A.

Remarks

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)	LAST ACCESSED: 19/08/1997
OMEGA 991	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Hazardous Components Other Limits (Specific Chemical Identity: Common Name(s)) CAS NO TLVRecommended 64742-58-1 5mg/m3 * Petroleum oil N-Nonane 111-84-2 200ppm SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 316C 0.9 Vapor Pressure (mm Hg. Melting Point 0.1 at 20C N.A. Vapor Density (AIR = 1) 6.0 Evaporation Rate (Kerosene=1) <1 Solubility in Water Insoluble Appearance and Odor Light tan viscous liquid. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL. Over 149C T.O.C. N.A. N.A. Extinguishing Media Dry chemical, carbon dioxide and foam. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Water may be ineffective. Unusual Fire and Explosion Hazards None SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable None Incompatibility (Materials to Avoid) Strong oxidizing agents such as: hydrogen peroxide, chromic acid, bromine Hazardous Decomposition or Products Carbon monoxide, carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Effects of Overexposure

Respiratory difficulty. May cause skin and eye irritation with prolonged contact.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 minutes. Call a physician immediately.

Skin contact: Wash thoroughly with soap and water. Inhalation: Remove to fresh air.

If swallowed: Drink 2 glasses of water. Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose of as solid waste in accordance to local, State and Federal regulations.

Waste Disposal Method

By methods consistent with local, State and Federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required for normal use.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. | Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required for normal use.

Work/Hygienic Practices

N.A.

Remarks

* TLV for mineral oil mist.

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IDENTITY(As Used on Label and List)	LAST ACCESSED: 19/08/1996
OMEGA 992	

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	Other Limits		
(Specific Chemical Identity: Common Name(s))	CAS NO	TLV	Recommended
Xylene	1330-20-7	150 ppm	_
Ethylbenzene	100-41-4	100ppm	_
Petroleum oil	64742-58-1	5mg/m3 *	_

SECTION II - PHYSICAL CHARACTERISTICS

Boiling Point	>100C	Specific Gravity (H20 = 1)	0.9
Vapor Pressure (mm Hg.)	-	Melting Point	-
Vapor Density (AIR = 1)	-	Evaporation Rate (B.Acet=1)	-

Solubility in Water Nil

Appearance and Odor Dark, thin liquid with solvent odor.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
70C TOC		N.A.	N.A.

Extinguishing Media

Water, fog, dry chemical or foam.

Special Fire Fighting Procedures

Fire fighters should wear an approved self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Dense smoke

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid				
Stable	Strong oxidizing agents, extreme heat **.				

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Products

Upon combustion - fumes, smokes and carbon dioxide.

Hazardous	Conditions to Avoid
Polymerization	
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure. See Section I hazardous ingredients.

Effects of Overexposure

Swallowing: Will cause irritation of gastro-intestinal tract.

Inhalation: Oil mist PEL 5mg/m3, may cause dizziness and other central

nervous system effects.

Skin contact: May cause irritation, defatting or drying.

Eye contact: May cause irritation, redness.

Emergency & First Aid Procedures

Swallowing: Do NOT INDUCE VOMITING. Seek medical attention. Skin: Wash with soap and water.

Inhalation: Remove to fresh air.

Eyes: Flush with large amounts of water for at least 15 minutes lifting upper and lower lids occasionally. Seek medical attention.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Soak up spills. Prevent spills from entering sewers or water ways.

Waste Disposal Method

Dispose of in accordance with federal, state and local regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves. Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

- * TLV for mineral oil mist.
- ** Exposure to direct light for long periods of time renders product ineffective.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee for any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

OMEGA MANUFACTURING DIVISION

MAGNA INDUSTRIAL CO. LIMITED

18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

LAST ACCESSED: 17/07/1997 IDENTITY(As Used on Label and List) OMEGA 998 SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits Hazardous Components (Specific Chemical Identity: Common Name(s)) TLVRecommended CAS NO 67-63-0 Isopropyl Alcohol 400ppm SECTION II - PHYSICAL CHARACTERISTICS Boiling Point Specific Gravity (H20 = 1) 82C 0.785 Vapor Pressure (mm Hg. 33 @20C Melting Point N.A. Vapor Density (AIR = 1) Evaporation Rate (But-Acet=1) 2 >1 Solubility in Water Completely soluble Appearance and Odor Clear amber liquid with alcohol odor. SECTION III - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method Used) Flammable Limits LELUEL12.2C TCC 2 12 Extinguishing Media Alcohol foam, carbon dioxide or dry chemical. Special Fire Fighting Procedures Fire fighters should wear an approved self contained breathing apparatus. Unusual Fire and Explosion Hazards Dense smoke SECTION IV - REACTIVITY DATA Stability Conditions to Avoid Stable Incompatibility (Materials to Avoid) Extreme Heat - Strong oxidizing agents. Hazardous Decomposition or Products Dense smoke, carbon monoxide, carbon dioxide. Conditions to Avoid Hazardous Polymerization Will Not Occur None

See Section I hazardous ingredients.

Effects of Overexposure

Threshold Limit Value

SECTION V - HEALTH HAZARD DATA

Eye Contact: Can cause severe irritation, redness, tearing, blurred vision.

Skin Contact: Can cause moderate irritation, defatting, dermatitis.

Inhalation: Excessive breathing of vapors can cause nasal & respiratory irritation, dizziness, fatigue, headache, asphyxiation.

Swallowing: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Emergency & First Aid Procedures

Eye Contact: Flush With large amounts of water for at least 15 minutes lifting upper & lower lids occasionally. Get medical attention immediately.

Skin Contact: Wash thoroughly with soap & water. Remove Contaminated clothing and wash before reuse.

Inhalation: remove to fresh air. If breathing is difficult administer oxygen. Get medical attention.

Swallowing: Give few glasses of water immediately and induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Absorb on inert material and transfer to storage tank. Eliminate all source of ignition. Stop spill at source. Dike area to prevent spreading to sanitary sewer. Pump to salvage tank. Contaminated absorbent may be deposited in sanitary landfill.

Waste Disposal Method

Dispose of in accordance with Federal, State and local regulations.

Precautions to Be Taken in Handling and Storing

Avoid breathing vapors, fumes, mist and gases. Keep away from heat, sparks and open flames. No smoking or flares. Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited at source distant from handling point.

Other Precautions

Keep out of reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Local Exhaust		Special
	N.A.	N.A.		N.A.
	Mechanical (General)	Mechanical (General)		Other
	N.A.			N.A.
Protective Gloves	;		Eye Protection	

Natural rubber, neoprene. Splash proof safety goggles.

Other Protective Clothing or Equipment

Impervious clothing & boots to prevent prolonged contact with skin.

Work/Hygienic Practices

N.A.

Remarks

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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18/F, GUARDIAN HOUSE, HONG KONG.

TEL: (852)2577 5187 FAX: (852)2577 3190

IDENTITY(As Used on Label and List)

OMEGA 999

LAST ACCESSED: 25/07/1996

OMEGA 99	9							
SECTION I - HAZARD	OUS IN	GREDIENTS/I	DENTI'	TY INFO	RMATION			
Hazardous Components							0	ther Limits
(Specific Chemical Ide	ntity: (Common Name(s))	CAS NO		rlv	R	ecommended
Highly refined min	eral d	oil**		64742-6	5-0	5mg/m3 *	_	-
SECTION II - PHYSI	CAL CH	ARACTERISTI	:Cs					
Boiling Point		N.A.	S	pecific (Gravity (H	120 = 1)	0	.96
Vapor Pressure (mm Hg.)	N.A.	М	elting Po	oint		Uı	nknown
Vapor Density (AIR = 1)	N.A.	E	vaporatio	on Rate (-)	N	.A.
Solubility in Water In	nsolub	le						
Appearance and Odor An	mber w	ith pungent	odor	•				
SECTION III - FIRE	AND E	EXPLOSION H	AZARD	DATA				
Flash Point (Method U	Jsed)		Flamma	able Limi	ts	LEL		UEL
90C (PMCC)			N.A.			-		_
Extinguishing Media								
Dry chemical	, cark	oon dioxide	, alco	hol foa	ım.			
Special Fire Fighting Procedures								
Fire fighters should wear an approved self contained breathing apparatus.								
Unusual Fire and Exp	losion H	lazards						
Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier								
then air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.								
SECTION IV - REACTIVITY DATA								
Stability	Conditi	ons to Avoid						
Stable								
Incompatibility (Materials to Avoid)								
Strong oxidizing agents								
Hazardous Decomposition or Products								
Of combustion, smoke, carbon monoxide, aldehydes and other products of								
incomplete combustion.								
Hazardous		Conditions to	Conditions to Avoid					
Polymerization								
Will Not Occur	Will Not Occur None							
SECTION V - HEALTH	HAZAR	D DATA						

SECTION V - HEALTH HAZARD DATA

TLV for mineral oil mist is 5mg/m3 for a daily 8-hour exposure.

Harmful if inhaled. Causes eye irritation. Causes skin irritation. May be harmful if absorbed through skin. May cause respiratory tract irritation.

Emergency & First Aid Procedures

Skin: Wash immediately with soap and water.

Eye: Flush immediately with water for at least 15 minutes. Get immediate Inhalation: Remove exposed person to fresh air if adverse effects are observed. Oral: Get immediate medical attention.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Evacuate all non-essential personnel. Personal protective equipment must be worn. Prevent entry into sewers and waterways. Pick up free liquid for recycling and/or disposal if can be accomplished safely with explosive proof equipment.

Waste Disposal Method

Unaltered material not expected to be a hazardous waste.

Disposal should be in compliance with local government laws.

Precautions to Be Taken in Handling and Storing

Keep away from potential sources of ignition. Store in well ventilated area. Open container in a well ventilated area. Keep container closed when not in use.

Other Precautions

Avoid breathing vapors. Wash thoroughly after handling. Launder contaminated clothing before re-use.

Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flames, spark or other sources of ignition.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Avoid breathing oil mist.

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full face shield.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Protective Gloves

Remarks

- * TLV for mineral oil mist
- ** Contains less than 3% DMSO extract as measured by IP 346.

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