

MATERIAL SAFETY DATA SHEET

AGRILIANCE, LLC

PRODUCT NAME(S)For Emergency Call: 800-228-5635 or
Chem Trec: 800-424-9300**SPROUT-GARD**

Product Code:

Effective Date: 09/01/99

I. IDENTIFICATION

CHEMICAL NAME OF PRIMARY COMPONENT(S): Dithiopyr

FORMULA: C₁₂H₁₆F₅S₂O₂N

MOLECULAR WEIGHT: 365

SYNONYMS: None

CAS # & NAME: 97886-45-8 Dithiopyr

II. INGREDIENTS/SUMMARY OF HAZARDS

(H)/INGREDIENT(S)	CAS NUMBER	OSHA HAZARD NON-HAZARD (NH)	PERCENT
Dithiopyr	97886-45-8	H	5.0 - 7.0
Cyclohexanone	108-94-1	H	8.0 - 12.0
Petroleum distillates		H	40.0 - 60.0
Paraffinic oil		NH	30.0 - 50.0

	NFPA ^{1/}	HMIS ^{2/}
HEALTH	2	2
FIRE	2	2
REACTIVITY	0	0

1/ National Fire Protection Association Rating

2/ Hazardous Materials Identification System

(4 = Extreme/Severe 3 = High/Serious 2 = Moderate 1 = Slight 0 = Minimum)

SARA TITLE III HAZARD CLASSIFICATION

IMMEDIATE (ACUTE) HEALTH	Yes
DELAYED (CHRONIC) HEALTH	Yes
FIRE	Yes
SUDDEN RELEASE OF PRESSURE	No
REACTIVE	No

III. PHYSICAL DATA

BOILING POINT: Not determined
MELTING POINT: Not determined
DENSITY: 7.50 pounds/gallon (SG=0.899)
VAPOR PRESSURE: Not determined
SOLUBILITY IN WATER: Immiscible in water
APPEARANCE: Light amber liquid
ODOR: Sweet, solvent

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 142° F (TCC)
FLAMMABLE LIMITS IN AIR: Not determined
AUTOIGNITION TEMPERATURE: Not determined
EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer or ordinary) for large fires. Water stream may spread flames.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Noxious fumes may be emitted under fire conditions.
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should use self contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.

V. REACTIVITY DATA

STABILITY: Stable under normal conditions
CONDITIONS TO AVOID: Storage under low or high temperatures
MATERIALS TO AVOID: Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur

VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

TOXICOLOGY DATA:
Acute Oral LD₅₀ (rat): > 5000 mg/Kg
Acute Dermal LD₅₀ (rat): > 5000 mg/Kg
Acute Inhalation (4hr rat): > 2.52 mg/L
Eye Irritation: Slight irritant
Dermal Irritation: Moderate irritant
Dermal Sensitization: Not a sensitizer

EXPOSURE LIMITS:

CHEMICAL NAME(S)	ACGIH (TLV)	OSHA (TWA)
Dithiopyr Cyclohexanone	Not established Not established	Not established 25 ppm (skin)

CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY: Not listed as a carcinogen by NRC, IARC or OSHA.

SIGNS OF POISONING: Eye or skin irritation, respiratory irritation.

PRIMARY ROUTES OF ENTRY: Eye/skin contact or inhalation.

EFFECTS OF SINGLE OVEREXPOSURE:

Swallowing: Ingestion of large amounts may cause nausea, vomiting, diarrhea, gastric distress.

Skin Absorption: May cause skin irritation. May cause skin sensitization.

Eyes: May cause severe eye irritation.

Inhalation: May cause respiratory tract irritation.

EFFECTS OF REPEATED OVEREXPOSURE: Repeated overexposure may cause kidney effects, liver effects, blood effects, adrenal effects and thyroid damage

OTHER EFFECTS OF OVEREXPOSURE: May cause severe skin irritation or sensitization.

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate preexisting skin conditions. Inhalation of mists may aggravate preexisting respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES:

Swallowing: Call a physician or poison control center. If victim is alert and not convulsing give 1/2 to 2 glass of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Skin: Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention if irritation develops and persists.

Eyes: Hold eyelids open and flush with a steady stream of water for at least 15 minutes. GET MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. If not breathing, administer artificial respiration. GET MEDICAL ATTENTION.

NOTES TO PHYSICIAN: Treat symptomatically. Presence of petroleum distillates indicates careful gastric lavage. Patient should be evaluated for signs of respiratory distress.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike the area using absorbent or materials such as sand or clay. Recover and contain as much product as possible using absorbent. Clean spill area using a solution of water and detergent. Collect and contain wash water and all contaminated absorbent for disposal. If spilled on the ground, the affected area should be excavated to a depth of 1 - 2 inches. Prevent the spilled product or washings from reaching public sewers or waterways. Wear appropriate protective equipment during the cleanup. Ensure that tools and equipment are adequately decontaminated.

WASTE DISPOSAL METHOD: Dispose of waste in a suitable manner in accordance with all local, state and federal regulations.

CONTAINER DISPOSAL: Dispose of in an approved facility according to federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: store in a cool, dry, secure area, away from sources of heat or ignition.

VIII. SPECIAL PROTECTION INFORMATION

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Any other activity that may result in hazardous exposures.
- See the product label for PPE required for labeled use

RESPIRATORY PROTECTION: If misting conditions exist, wear NIOSH approved respirator with organic vapor cartridges

VENTILATION: Local ventilation.

PROTECTIVE CLOTHING: Rubber gloves, coveralls, apron and foot coverings.

EYE PROTECTION: Safety goggles.

USER SAFETY RECOMMENDATIONS: Safety showers and eye wash should be easily available.

IX. REGULATORY STATUS

TSCA INVENTORY STATUS: Components appear on the TSCA inventory

TRANSPORTATION STATUS:

DOT INFORMATION:

Container Capacity	Proper Shipping Name	Hazard Class	Label	Packing Group
Greater than 119 gallons	Combustible liquid, (contains cyclohexanone)	Combustible liquid	None required for non bulk packaging	III

SARA TITLE III

Section 302-304 (40 CFR 350):

Extremely Hazardous Substance (EHS): Not listed

Section 312, Reporting (40 CFR 370):

SARA/OSHA Hazardous Chemical Reporting Quantity: 10,000 lbs

Section 313, Toxic Chemicals:

Reportable Quantity (RQ): Cyclohexanone 5000 pounds

RCRA HAZARDOUS WASTE: Cyclohexanone U057

International Right-To-Know Regulations:

X. REFERENCES

- 1) Supplier sponsored studies.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH,
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