

# MATERIAL SAFETY DATA SHEET

# STRATEGY

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

Platte Chemical Company  
P.O. Box 667 • Greeley, CO 80632-0667

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976

**PRODUCT NAME:** STRATEGY  
**CHEMICAL NAME:** Ethalfuralin: N-ethyl-N- (2-methyl-2-propenyl)-2,6-dinitro-4- (trifluoromethyl benzeneamine); Clomazone: 2-(2-chlorophenyl) methyl-4, 4-dimethyl-3-isoxazolidinone  
**CHEMICAL FAMILY:** Dinitroaniline-Isoxazolidinone Herbicide  
**EPA REG. NO.:** 34704-836

**MSDS Number:** 000836b-03      **MSDS Revisions:** Sections 1, 3 and 4      **Date Of Issue:** 07/21/03      **Supersedes:** 03/18/03

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Ethalfuralin	18.20	55283-68-6	none established
Clomazone	5.60	81777-89-1	none established
Naphthalene	3.90	91-20-3	50 mg/m <sup>3</sup>
Solvent naphtha (petroleum), heavy aromatic	24.10	64742-94-5	
Inert Ingredients	48.20		

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 3. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION – CAUSES MODERATE EYE IRRITATION – AVOID CONTACT WITH SKIN AND EYES**

This product is a bright yellow-colored liquid with an acrylic paint-like odor. Primary routes of entry are Inhalation, eye contact and skin contact.

## 4. FIRST AID MEASURES

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-800-301-7976**

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (° F/Test Method):** Not determined  
**FLAMMABLE LIMITS (LEL & UEL):** Not established  
**EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** Toxic fumes are emitted in a fire situation.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Formulation emits toxic fumes as it burns. Wear self-contained breathing apparatus and full protective gear. Fight fire from upwind and keep all non-essential personnel out of a area of intense smoke.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire, contain run-off, using dikes to prevent contamination of water supplies.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing vapors. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

**HANDLING:** Refer to section 8 for PPE (personal protective equipment).  
**STORAGE:** Store in a cool dry place away from children, feed and food products, fertilizer and seed. Protect from freezing. Store above 40°F/4.5°C. Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required, if vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
Naphthalene	50 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Bright yellow -colored liquid with acrylic paint-like odor	<b>SOLUBILITY:</b> Soluble
<b>SPECIFIC GRAVITY (Water= 1):</b> 1.049 g/ml	<b>BULK DENSITY:</b> 8.75 lbs/gal
<b>VAPOR PRESSURE:</b> Not established	<b>BOILING POINT:</b> > 215°F/101.7°C
<b>PERCENT VOLATILE (by volume):</b> Not established	<b>EVAPORATION RATE:</b> Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample.  
 Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable **CONDITIONS TO AVOID:** Excessive heat or cold.  
**INCOMPATIBILITY:** None known.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes are emitted in a fire situation.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD50 (rat):</b> >5050 mg/kg	<b>Acute Dermal LD 50 (rabbit):</b> >5050 mg/kg
<b>Eye Irritation (rabbit):</b> Causes moderate eye irritation	<b>Skin Irritation (rabbit):</b> Causes slight irritation
<b>Acute Inhalation LC<sub>50</sub> (rat):</b> >2.38 mg/L.	<b>Ingestion:</b> May cause stomach distress, nausea or vomiting.

**Carcinogenic Potential:** Naphthalene has been determined to be a possible human carcinogen (Class 2B) by IARC.

**12. ECOLOGICAL INFORMATION**

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

**13. DISPOSAL CONSIDERATIONS**

Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2:CLASS: 60)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	1 Health	0 Least	1 Health
	1 Flammability	1 Slight	1 Flammability
	1 Instability	2 Moderate	1 Reactivity
		3 High	H PPE
		4 Severe	

**SARA Hazard Notification/Reporting**  
**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
 Delayed Y Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Naphthalene (CAS: 91-20-3) 100 pounds (2655 pounds of the formulation)  
**SARA, Title III, Section 313:** Naphthalene (CAS: 91-20-3) 3.9%  
**RCRA Waste Code:** Not listed

**CA Proposition 65:** This product contains Naphthalene (CAS: 91-20-3), a chemical known to the State of California to cause cancer.

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**16. OTHER**

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**MSDS STATUS:** Sections 1, 3 and 4**PREPARED BY:** Registrations and Regulatory Affairs**REVIEWED BY:** Environmental/ Regulatory Services

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