

## MATERIAL SAFETY DATA SHEET

AGRILIANCE, LLC

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

Product Code:

Effective Date: 10/14/99

**I. IDENTIFICATION**

CHEMICAL NAME OF PRIMARY COMPONENT(S): Dithiopyr

FORMULA: C<sub>12</sub>H<sub>16</sub>F<sub>5</sub>S<sub>2</sub>O<sub>2</sub>N

MOLECULAR WEIGHT: 365

SYNONYMS: None

CAS # &amp; 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 <sup>1/</sup>	HMIS <sup>2/</sup>
HEALTH	2	2
FIRE	4	4
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, packaged in aerosol form.  
**ODOR:** Sweet, solvent

**IV. FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 142° F (TCC), Flame extension is > 18 inches  
**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. Aerosol containers may rupture violently under high heat 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. Cool aerosol containers with mist or fog.

**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 LD<sub>50</sub> (rat):** > 5000 mg/Kg  
**Acute Dermal LD<sub>50</sub> (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,  
BUT, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.