



Product: CRABGRASS PREVENTER 2
 EPA Reg. No.: 62719-492-869
 Effective Date: 6/1/2004

MATERIAL SAFETY DATA SHEET
 Emergency Phone 800/535-5053

| Size | Product Number | UPC Code |
|-------|----------------|-----------------|
| 10 lb | 41010 | 0 49424 41010 1 |
| 10 lb | 41011 | 0 49424 41010 1 |

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS

| No. | | CAS REG NO | WEIGHT (%) |
|-----|---|------------|---------------|
| 1 | Dithiopyr | 97886-45-8 | 0.06 – 0.25 |
| 2 | Other Ingredients, Total, Including | N/A | 99.94 – 99.75 |
| | Silica, Dipropylene glycol | | |

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. HAZARDS IDENTIFICATION

| | |
|---------------------------------------|--|
| EMERGENCY OVERVIEW | May cause eye irritation. Toxic to aquatic organisms. |
| POTENTIAL HEALTH EFFECTS | This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner. |
| EYE | May cause eye irritation. |
| SKIN | Prolonged exposure is not likely to cause significant skin irritation. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD ₅₀ has not been determined. Dithiopyr did not cause allergic skin reactions when tested in guinea pigs. |
| INGESTION | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Single dose oral LD ₅₀ has not been determined. Based on information for the components, the oral LD ₅₀ for rats is expected to be >5000 mg/kg. |
| INHALATION | At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. |
| SYSTEMIC (OTHER TARGET ORGAN) EFFECTS | Dithiopyr, in animals, effects have been reported on the following organs: blood, kidney, liver, thyroid, adrenal gland and gall bladder. |
| CANCER INFORMATION | Dithiopyr did not cause cancer in laboratory animals. |
| TERATOLOGY | Dithiopyr did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother. |
| REPRODUCTIVE EFFECTS | In animal studies, dithiopyr has been shown not to interfere with reproduction. |

3. FIRST AID MEASURES

| | |
|-----------|---|
| EYE | Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. |
| SKIN | Wash skin with plenty of water. |
| INGESTION | 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 |



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INHALATION
 NOTE TO PHYSICIAN

vomiting unless told to do so by the poison control center or doctor.
 Never give anything by mouth to an unconscious person.
 Move person to fresh air; if effects occur, consult a physician.
 No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

4. FIRE FIGHTING MEASURES

FLASH POINT
 AUTO-IGNITION TEMPERATURE
 LOWER EXPLOSIVE LIMIT
 UPPER EXPLOSIVE LIMIT
 UNUSUAL HAZARDS
 EXTINGUISHING AGENTS

Not Applicable
 No Data
 No Data
 No Data
 Pesticide particulates can become airborne.
 Use the following extinguishing media when fighting fires involving this material: carbon dioxide - dry chemical - water spray - foam

PERSONAL PROTECTIVE EQUIPMENT

Wear self-contained breathing apparatus (pressure-demand NIOSH approved or equivalent) and full protective gear.

SPECIAL PROCEDURES

Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

5. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 7, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 3, First Aid Measures, for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

PROCEDURES

Keep spectators away. Avoid breathing dust. Transfer spilled material to suitable containers for recovery or disposal. Keep dust to a minimum. **WARNING: KEEP SPILLS AND CLEANING RUNOFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.**

6. HANDLING AND STORAGE

STORAGE CONDITIONS

Do not store this material near food, feed or drinking water. Avoid temperature extremes during storage; ambient temperature preferred. Keep container tightly closed when not in use.

HANDLING PROCEDURES

Do not handle material near food, feed or drinking water.

OTHER

Completely empty bag into application equipment. Dispose empty bag in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINES

None established.

ENGINEERING CONTROLS

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS

EYE/FACE PROTECTION

Use safety glasses.

SKIN PROTECTION

No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION

No respiratory protection should be needed.



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APPLICATORS AND ALL
 OTHER HANDLERS

Refer to the product label for personal protective clothing and equipment.

8. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|-----------------------|
| COLOR | Brown |
| STATE | Granular solid |
| ODOR CHARACTERISTIC | Slight musty odor |
| PH | 4.1 50% Solution |
| VISCOSITY | Not Applicable |
| SPECIFIC GRAVITY (WATER = 1) | 1.413 |
| VAPOR DENSITY (AIR = 1) | Not Applicable |
| VAPOR PRESSURE | Negligible |
| MELTING POINT | No Data |
| BOILING POINT | Not Applicable |
| SOLUBILITY IN WATER | Practically insoluble |
| PERCENT VOLATILITY | 0% |
| EVAPORATION RATE (BAC = 1) | Not Applicable |

The physical and chemical data given in this Section are typical values for this product and are not intended to be product specifications. See Section 4, Fire Fighting Measures

9. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| INSTABILITY | This material is considered stable. |
| HAZARDOUS DECOMPOSITION PRODUCTS | There are no known hazardous decomposition products for this material. |
| HAZARDOUS POLYMERIZATION | Product will not undergo polymerization. |
| INCOMPATIBILITY | Avoid contact with strong oxidizing agents. |

10. TOXICOLOGICAL INFORMATION

| | |
|--------------|--|
| MUTAGENICITY | For the components tested, in-vitro and animal mutagenicity studies were negative. |
|--------------|--|

**11. ECOLOGICAL INFORMATION
 ENVIRONMENTAL FATE:**

| | |
|---------------------------|---|
| MOVEMENT & PARTITIONING | Based largely or completely on information for the dipropylene glycol. Bioconcentration potential is low (BCF is <100 or Log Pow <3). Based largely or completely on information for the silica. Partitioning from water to n-octanol is not applicable. |
| DEGRADATION & PERSISTENCE | Based largely or completely on information for the dipropylene glycol. Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Material is inherently biodegradable. Reaches more than 20% biodegradation in OECD test(s) for inherent biodegradability. Based largely or completely on information for the silica. Biodegradation is not applicable. |
| ECOTOXICOLOGY | Based largely or completely on information for the active ingredient. Material is highly toxic to aquatic organisms on an acute basis (LC50 or EC50 is between 0.1 and 1 mg/L in the most sensitive species tested). Material is practically non-toxic to birds on an acute basis (LD50 is >2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 is >5000 ppm). Based largely or completely on information for the dipropylene glycol. Material is practically non-toxic to aquatic organisms on an acute basis (LC50 or EC50 is >1000 mg/L in the most sensitive |



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species tested). Based largely or completely on information for the silica. Not expected to be acutely toxic to aquatic organisms.

**12. DISPOSAL CONSIDERATIONS
PROCEDURE**

For disposal, incinerate this material at a facility that complies with local, state, and federal regulations.

**13. TRANSPORT INFORMATION
US DOT HAZARD CLASS**

Non-Regulated

14. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION

To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard; A delayed health hazard

TOXIC SUBSTANCES CONTROL
ACT (TSCA)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW

This product is not known to contain any substances subject to the disclosure requirements of: New Jersey, Pennsylvania

OSHA HAZARD COMMUNICATION
STANDARD

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY ACT (CERCLA, or
SUPERFUND)

To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, Green Light makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Green Light's control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication or use of, or reliance upon, information contained herein does not relate to the use of this product in combination with any other material or in any other process.