

Material Safety Data Sheet  
May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be consulted  
for specific requirements.

U.S Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

**Bonide Grass Beater Over-the-Top Grass Killer Conc.**

**ID # 7969884**

Date: January 11, 2011

## Section I

Bonide Products, Inc.  
6301 Sutliff Rd.  
Oriskany, NY 13424

(800) 424-9300 (Chemtrec)  
(315) 736-8231

## Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Sethoxydim CAS# 74051-80-2				13.0%
Other ingredients				87.0%

## Section III - Hazard Identification

Emergency Overview:

KEEP OUT OF THE REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

May cause moderate but temporary irritation to the eyes.

Avoid contact with the skin, eyes and clothing.

PRIMARY ROUTES OF EXPOSURE:

Routes of entry for solids and liquids eye and skin contact, ingestion and inhalation.

Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation. Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.

## Section IV - First Aid

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

**SKIN:** Remove contaminated clothing and wash thoroughly with soap and water immediately. Obtain medical attention if irritation persists.

**INHALATION:** Remove to fresh air. If breathing is difficult or if any discomfort persists, obtain medical attention.

**INGESTION:** If swallowed, call a poison control center or doctor immediately for treatment advice. Never induce vomiting or give anything by mouth if the person is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow. Have the product container or label with you when calling a poison control center or doctor or going to for treatment.

**NOTE TO PHYSICIAN:** Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision. No known specific antidote. Treat symptomatically.

## Section V - Fire and Explosion Data

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, dry chemical, foam, water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind residents and all areas where fire seriously threatens the product containers. Wear full protective clothing including rubber boots, neoprene gloves and self-contained breathing apparatus. Attempt to keep containers cool. Dike runoff and prevent from entering bodies of waters or sewers. Do not breathe or contact smoke or vapors. Prevent use of contaminated building, area and equipment until decontaminated.

## **Section VI – Accidental Release Information**

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**SPILL OR LEAK:** Isolate and post spill area. Wear prescribed protective clothing and equipment. Keep material out of streams and sewers. Contain and absorb spilled material with a solid absorbent such as sand, cat litter, commercial clay or other suitable absorbent. Place in an approved drum and properly dispose of material. To decontaminate spill area, tools and equipment, wash with a suitable solution (e.g. organic solvent, detergent, bleach or caustic) and properly dispose of solution.

## **Section VIII - Precautions for Safe Handling/Use**

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**STORAGE AND HANDLING:** Store in a cool, dry place and avoid excess heat. Store above 32°F. Store in original containers only. Do not store food, beverages or tobacco products in the storage area. Do not contaminate other pesticides, fertilizers, water, food or feed by improper storage or disposal. Wash thoroughly after handling, and before eating drinking or smoking. Wash clothing separately before re-use.

**PROTECTIVE REQUIREMENTS:**

**SKIN AND BODY:** Wear suitable protective clothing. Chemical resistant boots, safety glasses with side-shields. Wear face shield if splashing hazard exists.

**WORK CLOTHING:** Wear long-sleeved coveralls or uniform, cap, socks & shoes, neoprene gloves, rubber gloves or other impervious type of glove.

**EYE PROTECTION:** Avoid eye contact. Wear safety glasses, protective goggles, face shield should be worn. A source of clean water for flushing the eyes should be nearby.

**VENTILATION:** Avoid breathing mist or spray. Use in well ventilated area.

**RESPIRATORY PROTECTION:** Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapors. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions.

## **Section VIII - Physical/Chemical Ingredients**

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**ODOR:** moderate aromatic odor

**pH:** 3.2 ( 10 g/l, 20°C)

**BOILING POINT:** approx. 204 °C

**APPEARANCE:** Amber liquid

**SOLUBILITY (H<sub>2</sub>O):** Emulsifiable

**VAPOR PRESSURE:** 1.50 mmHg

**SPECIFIC GRAVITY:** 0.91

**FLASH POINT:** 165 °F

**AUTO IGNITION TEMP.:** 746.6 °F

## **Section IX – Reactivity & Stability Data**

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**CONDITIONS TO AVOID:** Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

**SUBSTANCES TO AVOID:** Oxidizing agents.

**HAZARDOUS REACTIONS:** This product is chemically stable. Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Non Known.

**THERMAL DECOMPOSITION:** Possible thermal decomposition products: carbon monoxide, carbon dioxide, sulphur dioxide, nitrogen dioxide, nitrogen oxide. Hydrocarbons stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.

## **Section X - Environmental and Disposal Information**

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**WASTE DISPOSAL:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations. Steel containers which contained these materials must be crushed and disposed of in a sanitary landfill. Do not cut or weld steel containers.

**LISTED WASTE:** This product is not regulated by RCRA.

**OTHER REGULATORY CLASSIFICATIONS:**

OSHA Hazard Category: IARC 1, 2A or 2B carcinogen, NTP Listed carcinogen, Chronic target organ effects reported, ACGIH TLV established, Combustible Liquid

CERCLA Reportable – (RQ) 100 lbs. naphthalene

**KEEP OUT OF REACH OF CHILDREN**

**ABBREVIATION KEY**

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N/A: NOT AVAILABLE OR APPLICABLE	N/E: NOT ESTABLISHED	ND: Not Determined
TLV: THRESHOLD LIMIT VALUE	TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY	
STEL: SHORT TERM EXPOSURE LIMIT	D.O.T.: DEPARTMENT OF TRANSPORTATION	

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.