

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.

US 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 Turbo Spreader/Sticker

Date: October 8, 1998

Section I

Bonide Products, Inc.
2 Wurz Ave.
Yorkville, NY 13495

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

Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
1.) Modified Phthalic/Glycerol Alkyl Resin				75-80
2.) 1,1,1-Trichloroethane CAS#71-55-6				20-25

Exposure Limit Information	Component	Units	ROHM & HAAS		OSHA		ACGIH	
			TWA	STEL	TWA	STEL	TLV	STEL
1.)			None	None	None	None	None	None
2.)		ppm	100	150	350	450	350	450

Section III - Hazard Information

HEALTH EFFECTS FROM OVEREXPOSURE: PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin contact, and Eye Contact. INHALATION: Inhalation of vapor or mist can cause the following: Irritation of nose and throat, drowsiness, slurred speech, headache, nausea, dizziness, stupor, and unconsciousness. EYE CONTACT: Material can cause the following: Moderate irritation. SKIN CONTACT: Prolonged or repeated skin contact can cause the following: Moderate skin irritation, splitting and cracking DELAYED EFFECTS: Repeated overexposure to the solvents in this product can cause the following: Kidney damage, liver damage, and heart damage.

Section IV - First Aid Measures

FIRST AID PROCEDURES: INHALATION: Move subject to fresh air. Give artificial respiration if breathing has stopped. INGESTION: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person. EYE AND SKIN CONTACT: Immediately flush eyes with a large amount of water for at least 15 minutes. See a physician. Wash affected skin areas thoroughly with soap and water. Remove and wash contaminated clothing thoroughly. NOTE TO PHYSICIAN: Because of the sensitizing effects of the hydrocarbon compounds on the myocardium, sympathomimetic amines, like epinephrine, should be avoided.

Section V - Fire Fighting Measures

UNUSUAL HAZARDS: Combustion generates toxic fumes of the following: Hydrogen Chloride. EXTINGUISHING AGENTS: Use the following extinguishing media when fighting fires involving this material: Carbon Dioxide, Water Spray, Dry Chemical. PERSONAL PROTECTIVE EQUIPMENT: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved equivalent) and full protective gear. SPECIAL PROCEDURES: Use water spray to cool containers exposed to fire.

Section VI - Spill or Leak Handling Information

PERSONAL PROTECTION: Appropriate protective equipment must be worn when handling a spill of this material. See the Personal Protection Measures Section for recommendations. If exposed to material during clean-up operations, see the First Aid Procedures Section for actions to follow.

PROCEDURES: Evacuate the spill area. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Section VII - Waste Disposal

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

Section VIII - Personal Protection Measures

RESPIRATORY PROTECTION: None required if airborne concentrations are maintained below the TWA/TLV's listed in the Component Exposure Information Section. For airborne concentrations up to 10 times the TWA/TLV's listed in the Component Exposure Information Section wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with organic vapor cartridges and dust and mist filters. EYE PROTECTION: Use chemical splash goggles ([ANSI Z87.1](#) or approved equivalent). HAND PROTECTION: Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only: VITON (registered Trademark of E.I. Dupont). Polyvinyl Alcohol. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. OTHER PROTECTION: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Section IX - Fire and Explosive Properties

FLASH POINT: 99°C/210°F. Set-a-flash Closed Cup. AUTO-IGNITION TEMPERATURE: 537°C/999°F. Solvent
LOWER EXPLOSIVE LIMIT: 8.0% Solvent UPPER EXPLOSIVE LIMIT: 10.5% Solvent

Section X - Reactivity Information

INSTABILITY: This material is considered stable.
INCOMPATIBILITY: Contact with the following materials may cause a reaction generating heat or decomposition: Aluminum and Magnesium.
HAZARDOUS POLYMERIZATION: Product will not undergo polymerization
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield the following: Phosgene, Chlorine Gas and Hydrogen Chloride.

Section XI - Toxicity Information

ACUTE DATA: ORAL LD50: rat: > 5000 mg/kg. EYE IRRITATION: rabbit: moderate irritation.
DERMAL LD50: rabbit: > 5000 mg/kg. SKIN IRRITATION: rabbit: moderate irritation.

Section XII - Regulatory Information

WORKPLACE CLASSIFICATIONS: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200). This product is exempt from the Canadian Workplace Hazardous Materials Information System (WHMIS).

TRANSPORTATION CLASSIFICATIONS: US DOT Hazard Class.....NonRegulated EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3): SECTION 311/312 CATEGORIZATIONS (40CFR 370): This product is a hazardous chemical under 29cfr 1910.1200, and is categorized as an immediate health hazard. SECTION 313 INFORMATION (40CFR 372): This product contains a chemical which is listed in Section 313 above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.) 1,1,1-Trichloroethane (71-55-6)

CERCLA INFORMATION (40CFR 302.4): This material has a component or components with a reportable quantity under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. The components, CAS numbers, and reportable quantities are listed below. Spills of a component in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. 1,1,1-Trichloroethane (71-55-6) 1000lbs.

RCRA INFORMATION: When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40CFR 261).

CHEMICAL CONTROL LAW STATUS: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section XIII - Facility Control Measures

VENTILATION: Use local exhaust ventilation with a minimum capture velocity of 100 ft./min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information of the design, installation, use, and maintenance of exhaust systems.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section XIV - Storage Conditions

Store in a well-ventilated area. Do not store this material near food, feed, or drinking water.

Section XV - Supplemental Information

COLOR: Brown	STATE: Liquid
ODOR CHARACTERISTIC: Solvent Odor	VISCOSITY: 120 CPS @25°C/77°F.
SPECIFIC GRAVITY (Water=1): 1.095	VAPOR DENSITY (Air=1): > 1
VAPOR PRESSURE: 100 mm Hg @ 20°C/ 68°F. Solvent	MELTING POINT: -12°C/ 10°F
BOILING POINT: 74°C/ 165°F. Solvent	SOLUBILITY IN WATER: Dispersible
PERCENT VOLATILITY: 20-25%	EVAPORATION RATE (Bac=1): > 1

HAZARD RATING

Toxicity	2
Fire	1
Reactivity	0
Special	-

SCALE

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

NOTICE: This information is believed to be accurate and reliable. However, no guarantee expressed or implied is made with respect to the information contained herein.

KEEP OUT OF REACH OF CHILDREN**ABBREVIATION KEY**

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.