

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 Borer Miner Killer Concentrate

ID # 4408
Date: April 4, 2001

Section I

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

(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)
Permethrin [CAS NO. 52645-53-1]	TWA – N/E		STE – N/E		2.50
Aqueous/emulsion Diluent	TWA - N/E		STE – N/E		97.50

Section III – Physical/Chemical Characteristics

PHYSICAL FORM: Liquid	COLOR: opaque/white	EYE: N/E
SPECIFIC GRAVITY: - 0.9975	BULK DENSITY: N/A	VAPOR PRESSURE: N/E
ODOR: Slight Insecticide type odor.	pH: 6.5 to 7.0	
LD ₅₀ ORAL: *>4000 mg/kg	LD ₅₀ DERMAL: *>2000 mg/kg	

Section IV - Fire/Explosion Hazards

FLASH POINT: Aqueous base product. Will not flash or burn. Will “steam” from water content.
FLAMMABILITY: N/E EXTINGUISHING MEDIA for cardboard shipping cartons: Water Fog; CO₂ or Chemical foam. FIRE FIGHTING COMMENTS: Foam/Fog system preferred. Remove closed case goods from path of fire. Use fog nozzles if water is used. Use air supplied or canister breathing masks for protection against burning cases and cartons. UNUSUAL FIRE/EXPLOSION HAZARD: None. Toxic vapor from heated product - Does not contain explosive ingredients.

Section V – Special Protection Information

RESPIRATOR TYPE: None likely needed during application. (Coarse spray droplets from Hose-End Sprayer)
EYE PROTECTION: Protective eyewear is always advisable when applying pesticides. GLOVES: Wear Rubber or neoprene Household type work gloves. OTHER PROTECTION: Body covering clothing: shoes plus socks.
KEEP OUT OF REACH OF CHILDREN

Section VII – Reactivity Data

STABILITY: Stable POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: Do not allow products to freeze, If frozen warm to ambient temperature, thoroughly mix and test spray a small leaf area of plant to assure that product will work properly.
DECOMPOSITION: Product is a diluted water base Insecticide and not likely to have any hazardous decomposition.

Section VIII - Storage and Handling

STORAGE: Store product in it's original labeled container in a cool, dry, locked place out of reach of children.
STORAGE TEMPERATURES: Ambient (Average Warehouse) Temperatures. Do not allow to freeze.
SHELF LIFE: 2 to 3 years if stored properly.
PRODUCT DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Excess product may be disposed of on site or at an approved disposal facility or continue to use up all product as directed for insect control.
CONTAINER DISPOSAL: Do not re-use empty container; wrap in several layers of newspaper and discard in trash.

Section VIII - Health Hazard Data

PRODUCT LABEL BEARS ONLY THE "CAUTION" SIGNAL WORD.

FIRST AID: IF SWALLOWED: Call a physician of Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and coughing back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. IF IN EYES: Rinse eyes for at least 15 minutes with plenty of water. Call a physician if irritation persists. Get medical attention immediately. IF ON SKIN: Wash promptly with plenty of soap and water. Wash contaminated clothing. IF INHALED: Remove victim to fresh air. Apply artificial respiration if needed to keep victim breathing. NOTE TO PHYSICIAN: N/A

CAUTION: May be harmful if swallowed or absorbed through the skin. Avoid breathing spray mist or vapors. Do not take internally. Avoid contact with skin, eyes or clothing. Wash hands and face thoroughly after handling and before eating.

Section X - Transportation

D.O.T. SHIPPING NAME: Misc. Lawn & Garden Insecticide

Class N.O.S.

D.O.T. HAZARD CLASS: N.O.S. Non-hazardous

D.O.T. LABELS REQUIRED: No

I.D. Number: N.O.S.

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KEEP OUT OF REACH OF CHILDREN

ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE

N/E: NOT ESTABLISHED

TLV: THRESHOLD LIMIT VALUE

TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY

STEL: SHORT TERM EXPOSURE LIMIT

D.O.T.: DEPARTMENT OF TRANSPORTATION

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