

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 Flying & Crawling Insect Killer (Aerosol)

ID # 4392

Date: March 16, 2000

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)
Tetramethrin (CAS# 7696-12-0)	N/E	N/E		0.1
Permethrin (CAS# 52645-53-1)	N/E	N/E		0.25
Piperonyl butoxide (CAS# 51-03-6)	N/E	N/E		0.5

Section III - Physical/Chemical Ingredients

APPEARANCE: Liquid

pH: NA

DENSITY: 6.55 lbs/gal

PHYSICAL STATE: Liquid

VISCOSITY: 20.3 cp @ 22°C

STABILITY: Stable

SOLUBILITY (H₂O): NA

ODOR: Odorless to faint deodorized kerosene odor.

HAZARDOUS POLYMERIZATION: Will not occur.

Section IV - Fire and Explosion Data

FLAMMABLE PROPERTIES:

FLASH POINT: 192°F 89°F TCC

FIRE AND EXPLOSION HAZARDS: Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, or Water.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

Section V - Health Hazard Information

EMERGENCY OVERVIEW:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This product is toxic to fish and aquatic invertebrates. Flammable. Contents under pressure.

PRIMARY ROUTE (S) OF ENTRY:

Skin contact.

EYES: Causes moderate eye irritation.

SKIN: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

CHRONIC (CANCER INFORMATION):

See Section 11 for carcinogenic/oncogenic effects of piperonyl butoxide and permethrin.

Section VI - First Aid Measures

EYES: Flush with plenty of water. Call a physician if irritation persists.

SKIN: Wash thoroughly with soap and water.

Section VII - Accidental Release Measures

Soak up with an absorbent material and dispose of in trash.

Section VIII - Handling and Storage

HANDLING PRECAUTIONS:

Avoid contact with eyes or clothing. Do not use in commercial food/feed handling establishments, restaurants, or other sites where food/feed is commercially prepared or processed. Not for use in USDA meat and poultry plants.

STORAGE PRECAUTIONS: Do not store near heat or open flame. Store in a cool, dry area away from children.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling.

Section IX - Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Use in a well-ventilated area.

EYE/FACE PROTECTION: Safety glasses

SKIN PROTECTION: Chemical-resistant gloves.

Section X - Toxicological Information

ACUTE STUDIES: Acute toxicity data is bridged from a similar product; Tetraperm Wasp & Hornet Killer FEQ 24, EPA Reg. 432-776, which contains 0.15% Tetramethrin, 0.375% Permethrin, and 0.75% Piperonyl Butoxide.

EYE EFFECTS: Moderately irritating.

SKIN EFFECTS: IRRITATION: Slightly irritation.

ABSORPTION: LD50 > 18.92 /mgL (for DOT classification)

SENSITIZATION: Positive

ACUTE ORAL EFFECTS: LD50 > 5,000 mg/kg

ACUTE INHALATION EFFECTS: 4-hour LD50 > 4.73 mg/L

CHRONIC (CANCER INFORMATION): A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

Section XI - Ecological Information

OTHER ENVIRONMENTAL INFORMATION: This product is toxic to fish and aquatic invertebrates. No not apply directly to water.

Section XII - Disposal Consideration

Replace cap. wrap container in several layers of newspaper and discard in trash. Do not incinerate or puncture. Can be disposed of with other recyclables where local law permits.

Section XIII - Transport Information

PROPER SHIPPING NAME: Aerosols, Nonflammable

HAZARD CLASS: 2.2

DOT IDENTIFICATION NUMBER UN1950

DOT SHIPPING LABEL: Nonflammable gas

Section XIV - Regulatory Information

SARA TITLE III NOTIFICATIONS AND INFORMATION

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

<u>CAS NUMBER</u>	<u>INGREDIENT NAME</u>	<u>PERCENT BY WEIGHT</u>
7696-12-0	Tetramethrin	=0.1
52645-53-1	Permethrin	=0.25
51-03-6	Piperonyl butoxide	=0.5

This information must be included on all MSDS's that are copied and distributed for this material.

REGULATED INGREDIENTS:

INGREDIENT: Tetramethrin

CAS NUMBER: 7696-12-0

PERCENT BY WEIGHT: = 0.1

REGULATIONS: SARA Section 313 Toxic Chemical

INGREDIENT: Permethrin

CAS NUMBER: 52645-53-1

PERCENT BY WEIGHT: = 0.25

REGULATIONS: Massachusetts Hazardous Substance
New Jersey Workplace Hazardous Substance
SARA Section 313 Toxic Chemical

INGREDIENT: Piperonyl butoxide

CAS NUMBER: 51-03-6

PERCENT BY WEIGHT: = 0.5

REGULATIONS: SARA Section 313 Toxic Chemical

INGREDIENT: Carbon dioxide

CAS NUMBER: 124-38-9

PERCENT BY WEIGHT: > 2

REGULATIONS: Illinois Toxic Substance
Massachusetts Hazardous Substance
New Jersey Workplace Hazardous
Pennsylvania Workplace Hazardous Substance

Section XV - Other Information

HMIS HAZARD RATING:

HEALTH: 1 Slight

FIRE: 2 Moderate

PROTECTION: B

NFPA HAZARD RATING:

HEALTH: 1 Slight

FIRE: 2 Moderate

PROTECTION: B

MSDS IDENTIFICATION CODE/NUMBER: 4392

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

TLV: THRESHOLD LIMIT VALUE

STEL: SHORT TERM EXPOSURE LIMIT

N/E: NOT ESTABLISHED

TWA: TIME WEIGHTED AVG./ 8 HOUR WORKDAY

D.O.T.: DEPARTMENT OF TRANSPORTATION

ND: Not Determined

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.