

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 Cyper-Eight

**ID # 4427**

Date: March 7, 2008

## 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)
Cypermethrin	523158-07-8		None Est.	26

## Section III - Physical/Chemical Ingredients

PHYSICAL STATE: Liquid	VISCOSITY: 16.6cp @ 25°C
VAPOR DENSITY (AIR=1): NA	SPECIFIC GRAVITY: 0.99 @ 25°F
SOLUBILITY(H <sub>2</sub> O): Emulsifies	EVAPORATION RATE: NA
APPEARANCE: Clear to amber brown liquid	ODOR: Strong aromatic odor.
PACKING DENSITY: 8.24 lb/gal	pH: 4.4

## Section IV - Fire Fighting Measures

FLAMMABLE PROPERTIES: FLASHPOINT: > 140°F > 60°C TCC  
FIRE AND EXPLOSION HAZARDS: Do not use near heat or open flame. Do not apply this diluted product in conduits, motor housing, junction and switch boxes or other electrical equipment because of possible shock hazard.  
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 - Reactivity Data

STABILITY: Stable	CONDITIONS TO AVOID (STABILITY): NA
HAZARDOUS POLYMERIZATION: Will not occur	INCOMPATIBLE MATERIALS: Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, halogen, halogen acids, possible trace amounts of carbonyl halide.	

## Section VI - Health Hazard Information

### EMERGENCY OVERVIEW:

HEALTH: Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing spray. Wash thoroughly with soap and water after handling. Remove contaminated clothing.

ENVIRONMENTAL: This product is toxic to fish.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, ingestion, eye and skin contact.

EYES: Causes substantial but temporary eye injury.

SKIN: Harmful if absorbed. Causes skin irritation.

INGESTION: Harmful if swallowed.

INHALATION: Harmful if inhaled.

CHRONIC (Cancer information): Class C oncogen

SIGNS AND SYMPTOMS: May cause eye and skin irritation, nausea, vomiting, abdominal cramps, tenderness, burning/prickling skin sensations.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None known.

---

## Section VII - First Aid Measures

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

SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

INGESTION: Do not induce vomiting. Call a physician or Poison Control Center immediately. Do not give anything by mouth to an unconscious person.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Inducing vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

---

## Section VIII - Accidental Release Measures

Keep well ventilated. Dike area to avoid run-off. Soak up with absorbent material such as sand, earth, etc. and shovel into waste container. Dispose of with chemical waste.

---

## Section IX - Handling and Storage

HANDLING PRECAUTIONS: Do not get in eyes, on skin or on clothing. Avoid breathing spray. Do not use on surfaces that can be harmed by water.

STORAGE PRECAUTIONS: Store product in original container and keep container closed when not in use. Do not store near food or feed. Protect from freezing.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

---

## Section X - Exposure Controls/Personal Protection

EYE/FACE PROTECTION: Full face shield or chemical splash-proof goggles.

SKIN PROTECTION: Impermeable gloves.

---

## Section XI - Toxicological Information

TOXICOLOGICAL INFORMATION:

EYE EFFECTS: Category II: Corneal irritation which was reversible within 10 days.

SKIN EFFECTS: Irritation: Category II; severe dermal irritation      Absorption: LD<sub>50</sub> > 2,000 mg/kg

Sensitizing: Non-sensitizing

ACUTE ORAL EFFECTS: LD<sub>50</sub> > 1,100 mg/kg

ACUTE INHALATION EFFECTS: LC<sub>50</sub> > 7.5 mg/L air

CHRONIC (CANCER INFORMATION): In studies with laboratory animals, cypermethrin did cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and mice.

CARCINOGENICITY:    NTP: No      IARC: No      OSHA: No

---

## Section XII - Ecological Information

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES: Cypermethrin is considered highly toxic to fish and aquatic invertebrates, and has LC<sub>50</sub> values which range from 0.004 ug/L to 3.6 ug/L. The aquatic invertebrates tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment.

ACUTE AND DIETARY TOXICITY TO BIRDS: Cypermethrin is practically non-toxic to birds having oral LD<sub>50</sub> values greater than 10,248 mg/kg.

ENVIRONMENTAL FATE INFORMATION: Cypermethrin is rapidly degraded in soil with a half-life of 2 to 4 weeks. It is readily hydrolyzed under basic conditions but, under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. Cypermethrin has a high affinity for organic matter and a Log K<sub>ow</sub> of 5.0; yet, because of the ease with which the material undergoes degradation it has a very low potential for bioconcentration (BCF = 17), and is not mobile in soil.

OTHER ENVIRONMENTAL INFORMATION: Do not contaminate water when disposing of equipment washwaters. For terrestrial uses, do not apply directly to and body of water, or to any areas where surface water is present or to intertidal areas below mean high water mark. Care should be used when spraying to avoid fish and reptile pets by removing and covering fish tanks before spraying.

### Section XIII - Disposal Considerations

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office.

**CONTAINERS DISPOSAL:** Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Containers less than one gallon: Wrap container in several layers of newspaper and discard in trash.

### Section IX - Transport Information

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid, n.o.s. (Cypermethrin)

**HAZARD CLASS:** 6.1, PG III     **DOT IDENTIFICATION NUMBER:** UN2902

**DOT SHIPPING LABEL:** Keep Away From Food

Quantities of 16 ounces or less can be shipped as Consumer Commodity with an ORM-D shipping label.

### Section X - Regulatory 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:

CAS NUMBER	INGREDIENT NAME	PERCENT BY WEIGHT
52315-07-8	Cypermethrin	26

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

#### REGULATED INGREDIENTS

INGREDIENT: Cypermethrin     CAS NUMBER: 52315-07-8

PERCENT BY WEIGHT: = 26

Regulations: Massachusetts Hazardous Substance  
New Jersey Workplace Hazardous Substance

**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.