SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Bonide Cyper Eight Insect Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>4427</td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide

1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424
T (315) 736-8231
www.bonide.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

<table>
<thead>
<tr>
<th>Flam. Liq.</th>
<th>Carc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>H350</td>
</tr>
</tbody>
</table>

2.2. Label elements

GHS-US labeling

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS02</td>
</tr>
<tr>
<td>GHS08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements (GHS-US)</td>
<td></td>
</tr>
<tr>
<td>H225 - Highly flammable liquid and vapor</td>
<td></td>
</tr>
<tr>
<td>H350 - May cause cancer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary statements (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P201 - Obtain special instructions before use</td>
</tr>
<tr>
<td>P202 - Do not handle until all safety precautions have been read and understood</td>
</tr>
<tr>
<td>P210 - Keep away from heat/sparks/open flames. - No smoking</td>
</tr>
<tr>
<td>P233 - Keep container tightly closed</td>
</tr>
<tr>
<td>P240 - Ground/bond container and receiving equipment</td>
</tr>
<tr>
<td>P242 - Use only non-sparking tools</td>
</tr>
<tr>
<td>P243 - Take precautionary measures against static discharge</td>
</tr>
<tr>
<td>P280 - Wear safety glasses/gloves</td>
</tr>
<tr>
<td>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower</td>
</tr>
<tr>
<td>P308+P313 - IF exposed or concerned: Get medical advice/attention</td>
</tr>
<tr>
<td>P370+P378 - In case of fire: Use Carbon Dioxide, Dry Chemical, Foam, or Water for extinction</td>
</tr>
<tr>
<td>P403+P235 - Store in a well-ventilated place. Keep cool</td>
</tr>
<tr>
<td>P405 - Store locked up</td>
</tr>
<tr>
<td>P501 - Dispose of contents/container to in accordance with local/regional/national regulations.</td>
</tr>
</tbody>
</table>

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cypermethrin cis/trans +/- 40/60</td>
<td>(CAS No.) 52315-07-8</td>
<td>26</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the person to rest.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapor.

Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/… equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from children. Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Naphthalene (91-20-3)</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>10 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Wear approved mask.

Other information: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid clear to amber.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless.</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic odor.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>4.4</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 140 °F</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.95 - 0.96</td>
</tr>
<tr>
<td>Density</td>
<td>956 g/l</td>
</tr>
<tr>
<td>Solubility</td>
<td>Emulsifies in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Extremely high or low temperatures. Open flame.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products
May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified

Naphtha, heavy aromatic (64742-94-5)
- LD50 oral rat > 5000 mg/kg (Rat)
- LD50 dermal rabbit > 2000 mg/kg (Rabbit)
- LC50 inhalation rat (mg/l) > 5 mg/l/4h (Rat)

Naphthalene (91-20-3)
- LD50 oral rat 1100 mg/kg (Rat)
- LD50 dermal rat > 2500 mg/kg (Rat)
- LD50 dermal rabbit > 20000 mg/kg (Rabbit)

Skin corrosion/irritation : Not classified
pH: 4.4

Serious eye damage/irritation : Not classified
pH: 4.4

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

Naphthalene (91-20-3)
- IARC group 2B - Possibly Carcinogenic to Humans
- National Toxicology Program (NTP) Status 3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
Bonide Cyper Eight Insect Control
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Naphtha, heavy aromatic (64742-94-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>2.1 - 4.2 mg/l (96 h; Lepomis macrochirus; Fresh water)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.95 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>2.34 mg/l (96 h; Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>1 mg/l (72 h; Skeletonema costatum; Growth)</td>
</tr>
</tbody>
</table>

### Naphthalene (91-20-3)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>1.99 mg/l (96 h; Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>2.16 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>2.96 mg/l (4 h; Selenastrum capricornutum)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.11 mg/l (96 h; Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>150 mg/l (96 h; Lepomis macrochirus; Cool water)</td>
</tr>
<tr>
<td>TLM fish 2</td>
<td>1.24 ppm (96 h; Oncorhynchus gorbuscha)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>0.4 mg/l (72 h; Skeletonema costatum; Growth rate)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Bonide Cyper Eight Insect Control**

Persistence and degradability  
Not established.

**Naphtha, heavy aromatic (64742-94-5)**

Persistence and degradability  
Not readily biodegradable in water.

**Naphthalene (91-20-3)**

Persistence and degradability  

- Biochemical oxygen demand (BOD): 0 g O²/g substance
- Chemical oxygen demand (COD): 0.22 g O²/g substance
- ThOD: 2.99 g O²/g substance
- BOD (% of ThOD): 0 % ThOD

**Cypermethrin cis/trans +/- 40/60 (52315-07-8)**

Persistence and degradability  
Not established.

#### 12.3. Bioaccumulative potential

**Bonide Cyper Eight Insect Control**

Bioaccumulative potential  
Not established.

**Naphtha, heavy aromatic (64742-94-5)**

Log Pow  
2.9 - 6.1

Bioaccumulative potential  
Bioaccumable.

**Naphthalene (91-20-3)**

- BCF fish 1: 23 - 168 (Cyprinus carpio; Test duration: 8 weeks)
- BCF fish 2: 40 - 300 (672 h; Oncorhynchus mykiss)
- BCF other aquatic organisms 1: 331 (360 h; Ostreidae)
- BCF other aquatic organisms 2: 130 (24 h; Chlorella sp.)
- Log Pow: 3.30 (Experimental value)

Bioaccumulative potential  
Low potential for bioaccumulation (BCF < 500).

**Cypermethrin cis/trans +/- 40/60 (52315-07-8)**

Bioaccumulative potential  
Not established.

#### 12.4. Mobility in soil

**Naphthalene (91-20-3)**

Surface tension  
0.03 N/m (100 °C)

#### 12.5. Other adverse effects

Other information  
Avoid release to the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to in accordance with local/regional/national regulations.
Additional information: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
In accordance with DOT
No dangerous good in sense of transport regulations

SECTION 15: Regulatory information
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING:
Causes substantial but temporary eye injury.
Causes skin irritation.

15.1. US Federal regulations
No additional information available

15.2. International regulations
No additional information available

15.3. US State regulations
Naphthalene (91-20-3)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Naphthalene (91-20-3)

<table>
<thead>
<tr>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
</tr>
</thead>
</table>

SECTION 16: Other information
Other information: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4
Asp. Tox. 1 | Aspiration hazard Category 1
Carc. 1B | Carcinogenicity Category 1B
Flam. Liq. 2 | Flammable liquids Category 2
Skin Irrit. 2 | Skin corrosion/irritation Category 2
H225 | Highly flammable liquid and vapor
H302 | Harmful if swallowed
H304 | May be fatal if swallowed and enters airways
H315 | Causes skin irritation
H350 | May cause cancer

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.