



Bonide Systemic Insect Control II

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier

Product name : Bonide Systemic Insect Control II
Product code : 4490

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, LLC
6301 Sutliff Road
Oriskany, NY 13424

Telephone Number: (315) 736-8231

Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: www.bonide.com

Email address: sales@bonide.com

1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101
Spills : 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)

| | |
|--|------|
| Flammable Liquid 2 | H225 |
| Acute Toxicity - Oral 5 | H303 |
| Eye damage/irritation 2A | H319 |
| Specific target organ toxicity - single - Narcotic effects 3 | H336 |

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapor
H303 - May be harmful if swallowed
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion proof equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P264 - Wash hands thoroughly after handling.
P261 - Avoid breathing fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P317 - IF SWALLOWED: Get medical help.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319 - Get medical help if you feel unwell.
P305 + P351 + P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P337 + P317 - If eye irritation persists: Get medical help.
P370+P378 - In case of fire: Use foam, CO2 or dry chemical for extinction.
P403+P235+P233 - Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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P405 - Store locked up.

P501 - Dispose of contents/container to in accordance with local/national regulations.

2.3. Other hazards

Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air vapor mixtures can occur. Slightly irritating to respiratory system.

SECTION 3: Composition/information on ingredients

Mixture

| Name | Product identifier (CAS No) | % |
|---------------------------------|-----------------------------|------|
| Acephate | 30560-19-1 | 9.4 |
| Isopropyl alcohol (propan-2-ol) | 67-63-0 | 87.4 |

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. Seek medical attention if discomfort or irritation continues.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off 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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and maybe used in conjunction with atropine but should not be used alone.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water fog. Sand.
- 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.

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.

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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.

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. Use only non-sparking tools.

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.
Storage conditions : Store in original container. Keep in fireproof place. Keep container tightly closed.
Incompatible products : Strong bases. strong acids.
Incompatible materials : Sources of ignition. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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

Physical state : Liquid
Appearance : Clear to amber color liquid.
Color : Clear to amber.
Odor : Sulfurous odor.
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : < 32 °F (< 0°C)
Boiling point : > 95°F (> 35°C)
Flash point : 64 °F (17.7°C) closed cup
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Density : 6.9 lbs./gallon
Viscosity : Same as water
Relative density : 0.83
Solubility : Miscible with water

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. May react with aluminum, acetaldehyde, chlorine and ethylene oxide.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

| | |
|--|---|
| Skin corrosion/irritation | : Mild to slight irritation at 72 hours. The Draize Skin Primary Irritation Score (range 0 - 8) for a 24-hr exposure (rabbits) is 0.9. The dermal LD50 in rabbits is greater than 5 g/kg. |
| Serious eye damage/irritation | : Based on the results of the rabbit irritation test, this product is considered to be irritating to the eyes. Corneal opacity, roughened corneas, mild iritis and severe conjunctival irritation were observed during the first three days after treatment. All eyes appeared normal by 14 days. |
| Respiratory or skin sensitization | : Not classified |
| Ingestion | : The oral LD50 in male and female rats is 4.4 and 3.6 g/kg respectively. |
| Inhalation | : The 1-hour vapor and aerosol inhalation LC50 in rats is greater than 145 and 57.5 mg/L respectively. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

| Acephate (30560-19-1) | |
|---|--|
| LC50 fish 1 | 2050 mg/l (96 h; <i>Lepomis macrochirus</i>) |
| LC50 other aquatic organisms 1 | 7.3 mg/l (96 h; Crustacea) |
| LC50 fish 2 | 110 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| Threshold limit other aquatic organisms 1 | 7.3 mg/l (96 h; Crustacea) |
| Threshold limit algae 1 | > 500 mg/l (96 h; Algae) |

12.2. Persistence and degradability

| Bonide Systemic Insect Control II | |
|-----------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Bonide Systemic Insect Control II | |
|-----------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Acephate (30560-19-1) | |
|-------------------------------|------------------------------------|
| BCF other aquatic organisms 1 | 3.11 (72 h; <i>Daphnia magna</i>) |
| Log Pow | -0.85 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

12.4. Mobility in soil

| Acephate (30560-19-1) | |
|-----------------------|-------------------------------------|
| Ecology - soil | Not toxic to plants. Toxic to bees. |

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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.
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

UN Number: UN1993

Proposer Shipping Name: Flammable liquid, n.o.s. (isopropyl alcohol)

Class: 3 – Flammable liquid

Packing Group: II

Hazard Label(s): 3 – Flammable liquid

DOT 49 CFR (Ground): Product may be shipped as a limited quantity in accordance with the provisions in § 173.150(b)

Reportable Quantity: None

IMDG Code (Sea): Product may be shipped as a limited quantity in accordance with the provisions in Chapter 3.4

Marine Pollutant: No

IATA DGR (Air): Product must be shipped as fully regulated on cargo aircraft only when a box contains 12x473ml bottles

ADR Class (road): Product may be shipped as a limited quantity in accordance with the provisions in Chapter 3.4

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:

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. When handling this product, wear safety glasses, chemical resistant gloves (including barrier laminate, butyl, nitrile or neoprene rubber, polyvinyl chloride or viton), long pants, and long-sleeved shirt. When using outdoors, spray with the wind to your back and do not use when wind speeds are 10 mph or more. Wash the outside of the gloves with soap and water before removing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

SECTION 16: Other information

Other information : None.

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.