



Bonide Captain Jack's Fruit Tree Spray Concentrate

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 Captain Jack's Fruit Tree Spray Concentrate
Product code : 88760104

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

Use of the substance/mixture : Insecticide, Fungicide

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)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier (CAS No)	%
Neem Oil	8002-65-1	70

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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
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 medical attention if you feel unwell.

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

No additional information available

SECTION 5: Firefighting measures

Flash Point > 208.8 °F (> 98.2 °C) (Tag Closed Tester)

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Carbon oxides. Other irritating fumes and smokes.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Ventilate the area. Keep out of smoke. Prevent fire-extinguishing water from contaminating surface water or the ground water system.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a MSHA/NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Contaminated absorbent material may pose the same hazards as the spilled product. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool (below 104F), dry place out of direct sunlight. Keep out of the reach of children. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Occupational exposure limits : No exposure limits noted for ingredient(s).
- Biological limit values : No biological exposure limits noted for the ingredient(s).

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.
- General hygiene considerations : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Light golden brown; Gardner Color #10.4
- Odor : Peanut with a hint of garlic odor
- Odor threshold : Not available
- pH : 5.4
- Melting point/ Freezing point : Not available
- Boiling point : Not available
- Flash point : > 208.8 °F (> 98.2 °C)
- Self ignition temperature : No data available
- Decomposition temperature : No data available

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Flammability (solid, gas)	: Not applicable
Vapor pressure	: Not available
Vapor density	: Not available
Solubility	: Slight soluble
Viscosity	: 47.5 mPa*s at 40 °C
Specific gravity	: 0.925 g/ml at 21 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Do not use in areas without adequate ventilation. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on likely routes of exposure

Inhalation	Yes
Skin contact	Yes
Eye contact	Yes
Ingestion	Yes

Most important symptoms/effects, acute and delayed

Direct skin contact may cause slight transient irritation. Direct eye contact may cause slight, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

11.2. Information on toxicological effects

Skin corrosion/irritation	Slightly irritating
Serious eye damage/eye irritation	Minimally irritating
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitizer	This product is not expected to cause skin sensitization.

Germ cell mutagenicity - No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity - No components present at greater than 0.1% are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) - Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity -single exposure	Not classified.
Specific target organ toxicity -repeated exposure	Not classified as a specific target organ toxicity-repeated exposure.
Aspiration toxicity	Not expected to be hazardous by OSHA criteria.
Chronic effects	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Prolonged or repeated overexposure may cause liver and kidney effects.

SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

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12.5. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal instructions - Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations - Dispose in accordance with all applicable regulations.

Hazardous waste code - The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products - Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging - Empty containers should be tripled rinsed according to the product label prior to being offered for recycling or disposal. Since emptied containers may retain product residue, follow label directions even after container is emptied.

SECTION 14: Transport information

Not regulated for transport by DOT

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.

15.1. US Federal regulations

This product is not classified under OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D) - Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4) - Not listed.

SARA 304 Emergency release notification - Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) - Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard	- No
Delayed Hazard	- No
Fire Hazard	- No
Pressure Hazard	- No
Reactivity Hazard	- No

SARA 302 Extremely hazardous substance - Not listed.

SARA 311/312 Hazardous chemical - No

SARA 313 (TRI reporting) - Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List - Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) - Not regulated.

Safe Drinking Water Act (SDWA) - Not regulated.

15.2. US State regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) - Not listed.

US. Massachusetts RTK - Substance List - Not regulated.

US. New Jersey Worker and Community Right-to-Know Act - Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law - Not listed.

US. Rhode Island RTK - Not regulated.

US. California Proposition 65 - This material is not known to contain any chemicals listed as carcinogens or reproductive toxins.

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.