

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 A Complete Fruit Tree Spray Concentrate

**ID No. 4122**

Date: March 6, 2013

### 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)
Captan CAS#133-06-2					12.00%
Malathion CAS#121-75-5					6.00%
Carabaryl CAS#63-25-2					0.30%

\*Contains Petroleum Distillate

**EMERGENCY OVERVIEW - WARNING!** Combustible liquid and vapor. Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed or inhaled.

### Section III - First Aid

EYES: Flush with water for at least 15 minutes. If irritation persists, obtain medical attention.

SKIN: Remove contaminated clothing and wash thoroughly with soap and water immediately. Obtain medical attention if irritation persists.

INHALATION: Remove to fresh air. If breathing is difficult or if any discomfort persists, obtain medical attention.

INGESTION: Obtain medical attention. Do not induce vomiting.

NOTE TO PHYSICIAN: Initial treatment is removal of exposure by washing, emesis or lavage and is followed by symptomatic and supportive care. Malathion is a cholinesterase inhibitor.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin dermatitis, pulmonary issues.

### Section IV - Firefighting Measures

FLASHPOINT: >105°F (closed cup) FLAMMABILITY LIMITS: UFL: N/A LFL: N/A

EXTINGUISHING MEDIA: Water fog, foam

DEGREE OF FIRE/EXPLOSION HAZARD: Combustible. Overheated, sealed containers are an explosion hazard. Vapors which form inside empty containers may also present an explosion hazard during a fire.

SPECIAL FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind residents and all areas where fire seriously threatens the product containers. In fires, use self-contained breathing apparatus. Wear full protective clothing including rubber boots, neoprene gloves and self-contained breathing apparatus. Attempt to keep drums cool. Do not breathe or contact smoke or vapors.

### Section V - Accidental Release Measures

SPILL OR LEAK: Isolate and post spill area. Wear prescribed protective clothing and equipment. Keep material out of streams and sewers. Contain and absorb spilled material with a solid absorbent such as sand, cat litter, commercial clay or other suitable absorbent. Place in an approved drum and dispose of material following the method outlined below under "Waste Disposal". To decontaminate spill area, tools and equipment, wash with a suitable solution (e.g. organic solvent, detergent, bleach or caustic) and dispose of solution following the method outlined below under "Waste Disposal".

### Section VI - Storage & Handling/Use

STORAGE: Store in a cool, dry place out of reach of children and animals. Avoid excess heat and sources of ignition. Store in original container only. Do not take internally. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes & clothing.

### Section VI - Storage & Handling/Use

HANDLING: Carefully open containers. After partial use, replace bungs or cap and close tightly. Wash hands and other exposed skin surfaces thoroughly prior to smoking or consuming food or beverages. Shower after handling or applying the product. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## **Section VII – Personal Protective Equipment**

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PROTECTIVE REQUIREMENTS: WORK CLOTHING: Wear long-sleeved coveralls or uniform, cap, safety shoes and neoprene gloves. Launder clothing separately.

EYE PROTECTION: Where potential of splashing exists, or contact with mist, protective safety glasses, goggles and face shield should be worn. A source of clean water for flushing the eyes should be nearby.

GLOVES: Where chemical protective gloves made of neoprene when handling this product.

RESPIRATORY PROTECTION: For moderate vapor liquid mist exposure, use half face or full face air purifying respirators which are NIOSH/MSHA approved for pesticides.

VENTILATION: Thoroughly ventilate all transport vehicles prior to unloading. Store in a cool, dry, well-ventilated place away from ignition source. General exhaust ventilation is considered sufficient.

## **Section VIII - Physical/Chemical Ingredients**

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ODOR: Pungent solvent odor

pH: 5.0-6.0

MELTING POINT: N A

SPECIFIC GRAVITY: 8.11 – 8.13 lbs/gal.

APPEARANCE: Creamy, Ivory liquid when mixed

SOLUBILITY (H<sub>2</sub>O): Miscible

VAPOR DENSITY: >1 (Air=1) NE

VOLATILES: NE

## **Section IX - Reactivity Data**

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STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (INCOMPATIBILITY): Heat and fire. Thermal decomposition and burning may produce toxic by-products and an explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.

## **Section X - Toxicology Information**

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Malathion is a cholinesterase inhibitor. Malathion can be readily absorbed through skin. There is limited evidence of Carcinogenic effect.

May be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and cause damage. May cause respiratory irritation, fluid in the lungs and lung damage., even death. Overexposure has caused kidney, nose and liver damage in laboratory animals.

## **Section XI – Ecological Information**

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ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to fish, aquatic invertebrates and birds. Captan is readily biodegradable. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Use with care when applying in areas adjacent to any body of water. Do not apply on saturated soil. Do not contaminate ornamental fish ponds. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

## **Section XII -Disposal Information**

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WASTE DISPOSAL: This material is a RCRA hazardous waste. Open dumping or burning of this material is prohibited. Follow federal, state and local regulations. Contract to authorized disposal service. Do not flush material to drain or storm sewer. Steel containers which contained these materials must be crushed and disposed of in a sanitary landfill. Do not cut or weld steel containers.

### **Section XIII- Transportation Information**

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Per 49 CFR 173.150(b) (3) ORM-D- Combustible Liquid, N.O.S. Limited qty 1.3 gal/ case.  
In bulk: D.O.T.: (ground) Petroleum Distillates, N.O.S. (contains Naptha, Petroleum)  
3, UN 1268, PG III

### **Section XIV- Regulatory Information**

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This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986(40CFR 372) (Max. Wt%)  
NONE

## **KEEP OUT OF REACH OF CHILDREN**

### **ABBREVIATION KEY**

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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.