

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 Systemic Insect Control

ID # 23924614

Date: October 14, 2004

Section I

Bonide Products, Inc.
6301 Sutliff Rd.
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)
Acephate 30560-19-1	None	None	None	9.4%

Section III - Physical/Chemical Ingredients

ODOR: Sulfurous Odor	pH: N/A	APPEARANCE: Clear to amber color liquid
SPECIFIC GRAVITY: 0.83 at 20°C	FLASH POINT: 64° F closed cup	
SOLUBILITY (H ₂ O): Emulsifies	VAPOR DENSITY: ND	% VOLATILES: ND
BOILING POINT: ND	VAPOR PRESSURE: ND	

Section IV - Fire and Explosion Data

FLASHPOINT: 64° F closed cup FLAMMABILITY LIMITS: UFL: N/A LFL: N/A
EXTINGUISHING MEDIA: Foam CO₂ or dry chemical.

DEGREE OF FIRE/EXPLOSION HAZARD: This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, electrical motors and switches. 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. Wear full protective clothing including rubber boots, neoprene gloves and self-contained breathing apparatus. Attempt to keep containers cool. Do not breathe or contact smoke or vapors. CONDITIONS TO AVOID (INCOMPATIBILITY): Heat and fire. Thermal decomposition and burning may produce toxic by-products and an explosion hazard. HAZARDOUS DECOMPOSITION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

Section V - Reactivity Data

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Excessive heat and fire. May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. May react with aluminum, acetaldehyde, chlorine and ethylene oxide.

Section VI - Health Hazard Information

PRIMARY ROUTES OF ENTRY: Acute and chronic effects from overexposure may result from inhalation and ingestion.

Carcinogenicity Comments: EPA has classed acephate in category C – possible human carcinogen, based on the increased incidence of liver tumors observed in the high dose, 1000 ppm (37.5 mg/kg/dy), female mice in the lifetime feeding study. Acephate was not carcinogenic in the other female and male mouse dose levels or the rat lifetime feeding study.

Section VII - Precautions for Safe Handling/Use

FIRST AID:

INGESTION: If swallowed, immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person..

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Remove contaminated clothing and wash 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.

NOTE TO PHYSICIAN: This product contains a cholinesterase inhibitor. If signs and symptoms of cholinesterase inhibition are present, atropine is antidotal. 2-PAM may also be given in conjunction with atropine. This product contains petroleum distillates – vomiting may cause aspiration pneumonia. Consideration should be given to gastric lavage with an endotracheal tube in place.

PROTECTIVE REQUIREMENTS:

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

WORK CLOTHING: Wear long-sleeved coveralls or uniform, cap, safety shoes and neoprene gloves.

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

RESPIRATORY PROTECTION.: Use only NIOSH/MESA approved respirator.

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

Section VIII - Environmental and Disposal Information

STORAGE AND HANDLING: Store in a cool, dry place and avoid excess heat. Store in original container only. Keep out of reach of children. Do not get in the eyes, on skin, or on clothing. After use, wash hands and other exposed skin 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.

SPILL OR LEAK: Isolate and post spill area. Keep away from ignition sources. 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. Use caustic or soda ash with alcohol (methanol, ethanol or isopropanol) to neutralize spill area. 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".

WASTE DISPOSAL: Open dumping or burning of this material is prohibited. An acceptable method of disposal is to burn in an incinerator in accordance with all local, state and federal environmental laws, rules, standards and regulations. Because acceptable methods of disposal may vary by location and because regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal. Steel containers which contained these materials must be crushed and disposed of in a sanitary landfill. Do not cut or weld steel containers.

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.