

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 Moletox II

**ID # 4285**

Date: October 8, 2009

### 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)
Zinc Phosphide CAS 1314-84-7				2.00%

OSHA Nuisance dust limit of 15 mg/M3 and ACGIH Nuisance dust limit of 10 mg/M3 may apply to this mixture.

### Section III – First Aid Measures

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

SKIN: Wash with soap and water. Launder contaminated clothing before re-use. If irritation persists, obtain medical assistance.

INHALATION: Remove person to fresh air. Obtain immediate medical attention.

INGESTION: Do not drink water. Do not administer anything or induce vomiting unless advised by a physician.

### Section IV - Fire and Explosion Data

FLASHPOINT: NIA FLAMMABLE LIMITS: NIA LEL: NIA UEL: NIA

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Avoid contact with water. Full protective equipment required including air supplied breathing equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Zinc Phosphide can react with water spontaneously forming flammable and toxic phosphine gas. Forms zinc oxide and oxides of phosphorus on burning.

### Section V- Accidental Release Measures

IN EVENT OF SPILL OR RELEASE: Obtain appropriate personal protective equipment. Avoid the generation of airborne dust. Vacuum or sweep up spilled material. Place in properly labeled container for disposal or re-use.

### Section VI - Health Hazard Information

ROUTES OF ENTRY: Inhalation, Skin, Ingestion

HEALTH HAZARDS (Acute and Chronic): Class B poison. Poisonous if swallowed or absorbed by skin.

Irritating to skin, eyes, mucous membranes.

CARCINOGENICITY: NTP: No IARC Monographs: No OSHA Regulated: No

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation/redness

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting and seek medical attention.

SKIN: Flush with plenty of water. Seek medical attention if irritation persists.

EYES: Flush with plenty of water. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air. If victim is not breathing, apply artificial respiration and seek medical attention.

## Section VII - Precautions for Safe Handling/Use

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**HANDLING AND STORAGE PRECAUTIONS:** Store in a cool, dry area preferably locked and out of reach of children and animals.

**RESPIRATORY PROTECTION (Specify type):** NIOSH approved. Under certain conditions self-contained breathing equipment may be needed in confined spaces.

**VENTILATION:** LOCAL EXHAUST: Normally adequate      **SPECIAL:** NIA

**PROTECTIVE GLOVES:** Rubber/Nitrile    **EYE PROTECTION:** Safety glasses/face shield or goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Washable work clothing including cap.

**WORK/HYGIENIC PRACTICES:** Launder clothing after use. Wash before eating, drinking, smoking

## Section VIII - Physical/Chemical Ingredients

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**BOILING POINT:** NA

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** NIA

**VAPOR PRESSURE (mm Hg):** NA

**MELTING POINT:** NIA

**VAPOR DENSITY (Air=1):** NA

**EVAPORATION RATE:** NA

**SOLUBILITY IN WATER:** Decomposes in water

**APPEARANCE AND ODOR:** Gray-black coated cracked corn kernels; phosphine gas odor.

## Section IX – Stability and Reactivity

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**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Moisture

**CONDITIONS TO AVOID IF POLYMERIZATION:** NA

**INCOMPATIBILITY (Materials to Avoid):** Active ingredient will react violently with oxidizing agents, acids and water. There is a possibility of reaction with water or acids, but violent reaction is highly unlikely.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Zinc oxides, oxide of phosphorus, phosphine gas

## Section X - Environmental and Disposal Information

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**SPILL OR LEAK PROCEDURES:** Sweep up with minimum generation of dust.

**WASTE DISPOSAL METHOD:** Class B poison. Dispose according to local, state or federal environmental regulations.

**ENVIRONMENTAL HAZARDS:** Toxic to birds and wildlife.

**KEEP OUT OF REACH OF CHILDREN**

### ABBREVIATION KEY

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N/A: NOT AVAILABLE OR APPLICABLE

N/E: NOT ESTABLISHED

TLV: THRESHOLD LIMIT VALUE

TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY

STEL: SHORT TERM EXPOSURE LIMIT

D.O.T.: DEPARTMENT OF TRANSPORTATION

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