

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 Nitrate of Soda

**ID # 915**

Date: March 10, 2008

### 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)
Sodium, Nitrate (CAS# 7631-99-4)	NE	NE		100

### Section III - Physical/Chemical Ingredients

BOILING POINT (°F): 380 degrees C (decomposes)	SPECIFIC GRAVITY (H <sub>2</sub> O=1): 2.26
VAPOR PRESSURE (mm Hg): Does not apply	PERCENT VOLATILE BY VOLUME (%): ND
VAPOR DENSITY (AIR=1): ND	EVAPORATION RATE (ethyl ether=1): ND
SOLUBILITY IN WATER: Appreciable	APPEARANCE AND ODOR: White Prills (pellets)
REACTIVITY IN WATER: Will not evolve flammable or toxic gases	

### Section IV - Fire and Explosion Data

FLASH POINT (°F): Does not apply      FLAMMABLE LIMITS IN AIR: Lower: ND Upper: ND  
EXTINGUISHING MEDIA: Dry chemical, CO<sub>2</sub>, water spray, or foam  
AUTO IGNITION TEMPERATURE: Not determined  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Product is an oxidizer. Oxidizers decompose, especially when heated, to yield oxygen, which increases the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion, or explosion.  
SPECIAL FIRE FIGHTING PROCEDURES: Remove containers from fire, if possible without risk. Cool containers exposed to flames with water. Utilized self-contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode. Yields toxic gases when heated.

### Section V - Health Hazard Information

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS: Inhalation, skin and eye contact, ingestion  
SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE OVEREXPOSURE: Exposure may result in irritation of the skin and/or mucous membranes. Ingestion of large amounts causes violent gastroenteritis. Symptoms of exposure include dizziness, abdominal cramps, vomiting, headache, mental impairment, cyanosis.  
CHRONIC OVEREXPOSURE: Prolonged or repeated exposure may cause anemia, methemoglobinemia, weakness, general depression, headache, mental impairment, and nephritis. A constant oral intake of nitrate containing foods or water could lead to formation of carcinogen N-Nitroso compounds.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Disorders of the respiratory system, and skin

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN :None

NTP:     YES  NO      IARC:     YES  NO      OSHA:     YES  NO

OTHER EXPOSURE LIMITS: TLV (nuisance dusts)=10 mg/m<sup>3</sup>; PEL (nuisance dusts)=15 mg/m<sup>3</sup>

#### EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. EYE OR SKIN CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

## Section VI - Reactivity Data

STABILITY:  Unstable  Stable

CONDITIONS TO AVOID: Does not apply

INCOMPATIBILITY (Materials to Avoid): Reducing agents, flammable or combustible materials, and other agents. Do not mix or contaminate with other agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield oxides of nitrogen and sodium oxide.

HAZARDOUS POLYMERIZATION:  May occur  Will Not occur

CONDITIONS TO AVOID: Does not apply

## Section VII – Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED: Sweep-up or shovel material into a clean, labeled container and seal. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State, and local regulations.

## Section VIII – Personal Protection Information

RESPIRATORY PROTECTION: NIOSH/MSHA approved respiratory devices to protect against dusts.

VENTILATION: General or local exhaust to maintain employee exposure below the TLV/PEL.

PROTECTIVE GLOVES: Impervious material to prevent skin contact.

EYE PROTECTION: Splash-proof or dust-resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

## Section IX – Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Store away from reducing agents and liquids of low flashpoints. Store in a cool, dry, well-ventilated area away from ignition sources. Empty containers used to hold this product should be removed from the premises.

OTHER PRECAUTIONS: May ignite other combustible materials (wood, paper, oil, etc.). Reaction with fuels may be violent. Run-off of sewer may create fire or explosion hazard.

## Section X – Other Information

OTHER PRECAUTIONS: Not determined

NOTICE: This information is believed to be accurate and reliable. However, no guarantee expressed or implied is made with respect to the information contained herein.

**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

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