

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 Aluminum Sulfate

**ID # 705**

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) |
|--|----------|---|--------------|--------------|
| AL <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> x H <sub>2</sub> O CAS# 17927-65-0 | NONE     | 2mg(AL)/m <sup>3</sup> in air<br>(Aluminum Soluble Salts) |              |              |

Common Names: Papermakers Alum, Filter Alum, Dry Alum

DOT: Aluminum Sulfate  
RQ 5000 lbs. Hazardous Substance  
UN 3082 9 Class 3  
Not regulated if less than 5000 pounds in one package.

### Section III - Physical/Chemical Ingredients

|                                 |   |
|---------------------------------|---|
| BOILING POINT: 240°F            | SPECIFIC GRAVITY(H <sub>2</sub> O=1): 1.6 |
| VAPOR PRESSURE (mmHg): N/A      | VAPOR DENSITY (AIR=1): N/A                |
| SOLUBILITY IN WATER: 50% @ 60°F | EVAPORATION RATE (Butyl Acetate=1): N/A   |
| MELTING POINT: N/A              |   |

APPEARANCE AND ODOR: White to off white granules or powder, no odor.

### Section IV - Fire and Explosion Data

|  |                                       |          |
|--|---------------------------------------|----------|
| FLASHPOINT: Non Flammable  | LEL: N/A                              | UEL: N/A |
| FLAMMABLE LIMITS (PERCENT BY VOLUME): N/A  |                                       |          |
| EXTINGUISHING MEDIA: N/A   | SPECIAL FIRE FIGHTING PROCEDURES: N/A |          |
| UNUSUAL FIRE AND EXPLOSION HAZARDS > 14000°F May Cause Toxic Gases (Sulfer Oxide) to form. |                                       |          |

### Section V - Reactivity Data

STABILITY: Stable  
CONDITIONS TO AVOID: Aluminum Sulfate precepitates alkalies and lowers pH in aqueous solutions.  
HAZARDOUS POLYMERIZATION: Will not occur  
INCOMPATIBILITY (Materials to avoid): Those, which are sensitive to lowered pH.  
HAZARDOUS DECOMPOSITION PRODUCTS: As under Section IV (Fire and explosion hazards).  
HAZARDOUS POLYMERIZATION: Will not occur

### Section VI - Health Hazard Information

ROUTES OF ENTRY:

INHALATION: Mist may cause irritation.

SKIN-EYES: May cause irritation.

INGESTION: May cause irritation.

HEALTH HAZARDS (acute and Chronic): LD50 (Mouse) 6207 mg/kg - Registry of Toxic Effects Dept. Health & Human Services 1985 - 86 ed.

NFPA CODE: 1, 0, 0

HMIS CODE: 1, 0, 0

CARCINOGENICITY: Not regulated as a carcinogen by OSHA or listed by NTP.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, if ingested nausea, vomiting, abdominal pain.

In all cases get medical attention if discomfort persists.

## Section VII - Control Measures

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RESPIRATORY PROTECTION (Specify type): None usually required.

VENTILATION:

Local Exhaust - None required

Special - None required

Mechanical (General): None required

Other: Concentration in air for mist

TLV: 2mg/(AL)/m<sup>3</sup> ACGIH

PROTECTIVE GLOVES: Rubber or equivalent

EYE PROTECTION: Goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK/HYGIENE PRACTICES: Limit direct contact to avoid irritation.

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

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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

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