

Material Safety Data Sheet

Alumina – Aluminum Oxide Remover

Product Hazard: Health: 1 Fire: 0 Toxicity: 0 Reactivity: 2 Special: 0
Hazard Rating: 4 = Deadly 3 = Extreme 2 = Hazardous 1 = Slight Hazard 0 = Normal

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING 02/08/06

Product Name: Alumina – Aluminum Oxide Remover
Manufacturer/Supplier: Orison Marketing, L.L.C. (Cage Code: 1GZV7)
4801 South Danville Drive
Abilene, TX 79602
Emergency Telephone Number: (325) 692-1135 or 800-460-2403 (in the U.S.)

2. INGREDIENTS

| Chemical Name: | CAS# | OSHA PEL | TLV | WT% |
|------------------|-----------|----------|------------|-----|
| Sodium Bisulfite | 7631-90-5 | | 5mg/m3 TWA | <5 |

*These chemicals are subject to reporting requirements off section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

3. HAZARDS IDENTIFICATION

Carcinogen: NA NTP: NA IARC Monograph: NA OSHA: NA

Primary Routes of Entry: Eye – Yes Ingestion – Yes Inhalation – Yes Skin - NA
Effects of overexposure: Eye – Slight irritation
Ingestion – nausea
Inhalation – Prolonged exposure to fumes can cause throat irritation and/or headache
Skin - none

Most Important Hazards: None
Specific Hazards: None

4. FIRST AID MEASURES

General Advice: Practice good hygiene and use in well ventilated area.
Inhalation: Remove to fresh air. If symptoms persist, consult physician.
Skin Contact: Not expected to be a skin irritant, non-corrosive per DOT test
Eye Contact: Rinse thoroughly with plenty of water. If symptoms persist, consult physician.
Ingestion: If swallowed give victim two glasses of water and INDUCE VOMITING by using ipecac syrup or placing two fingers at the back of the throat. Get immediate attention. Do not give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, CO2
Special Fire Fighting Procedures: Wear SCBA & all protective equipment
Specific Hazards: Will produce sulfur dioxide at high temperatures
Flash Point: None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None needed. Caution floor may be slippery.
Environmental Precautions: None needed; non-toxic, non-hazardous in neat form.
Methods for Cleaning Up: Dike area and pump spilled material into plastic container for disposal or reclaiming.

7. HANDLING AND STORAGE

Corrosivity: Non-corrosive.
Technical Measures/Precautions: Normal ventilation is adequate, do not use in enclosed space.
Safe Handling Advice: Avoid contact with eyes.

Technical Measures/Storage Conditions: Low temperature can cause handling problems. Viscosity of material will increase.
Incompatible Products: Avoid storing near oxidizers, bleach, or strong acids
Packaging Material: Store in tightly sealed containers in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: General room ventilation is satisfactory.
Control Parameters: None needed.
Personal Protection Equipment
Respiratory: None required.
Eye: Safety glasses
Hand: Gloves can help retain natural moisture, but not required.
Hygiene Measures: Employ good hygiene measures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Water viscous liquid
Odor: Acrid odor
Boiling Point/Range: >200°F
Freezing Point: 32°F/0°C
Flash Point: None
% Volatile by weight: >85%
Vapor Pressure: NA
Surface Tension: Not determined
Evaporation Rate: >1 ether=1 (same as water)

Color: Clear, colorless
pH: 5.3 – 6.3
Melting Point/Range: Not Applicable
Viscosity @ 25°C: same as water
Explosive Properties: None
Water Solubility: Complete
Vapor Density: NA air =1
Specific Gravity: 1.02
Volatile Organic Compounds: None measurable

10. STABILITY AND REACTIVITY

Stability: Normally Stable
Conditions to Avoid: High temperatures
Materials to Avoid: Avoid contact with strong oxidizing agents, bleaches or other reactive materials.
Hazardous Decomposition Products: Oxides of sulfur
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Not expected to exhibit any toxic effects
Local Effects: None.
Specific Effects: None.

12. ECOLOGICAL INFORMATION

No information found.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local, state, and federal regulations. Treat material as waste from material cleaned in product.
Contaminated Packaging: If recycling is not practicable, dispose of in compliance with the Environmental Protection (Duty of Care) Regulations 1991 if contaminated with hazardous materials.

14. TRANSPORTATION INFORMATION

Not regulated.

15. REGULATORY INFORMATION

| | CAS | TSCA | EC | JAPAN | AUSTRALIA | CANADA |
|------------------|-----------|------|-----|-------|-----------|--------|
| Sodium Bisulfite | 7631-90-5 | Yes | Yes | Yes | Yes | Yes |

16. OTHER INFORMATION

For further information, contact the Headquarters of Orison Marketing, L.L.C.
Recommended Use: Aluminum Oxide Remover

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other materials or in any process, unless specified in the text.