



Safety Data Sheet
Aluminox™

SDS Revision Date: 08/01/17

Section 1: Identification

Material Name: Aluminox™ Concentrate (and RTU)
Product Use: Aluminum Brightener/Cleaner
Manufacturer: Orison Marketing, L.L.C.
Address: 4801 South Danville Drive, Abilene, TX 79602
Phone: 1-325-692-1135 / 1-800-460-2403
Website / Email: www.orisonmarketing.com / info@orisonllc.com

Section 2: Hazards Identification

United States (US) - According to OSHA 29 CFR 1910.1200 Hazard Communication Standard

Classification of the Substance or Mixture

Hazard Classification: Skin Corrosion/Irritation – Category 1a – H314
Serious Eye Damage/Eye Irritation – Category 1 – H318

OSHA Regulatory Status: This product is considered not hazardous under 29 CFR 1910.120.

Potential Health Effects

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Skin: Take off immediately all contaminated clothing. Rinse skin with water/ shower. [As modified by IV ATP] Wash contaminated clothing before reuse. [As modified by IV ATP]
Inhalation: Remove person to fresh air and keep comfortable for breathing. [As modified by IV ATP] Immediately call a POISON CENTER/doctor/... [As modified by IV ATP]
Ingestion: Rinse mouth. Do NOT induce vomiting.



Label Elements:

Signal Word: Danger; R36/38
Hazard Statement: H314 – Causes severe skin burns and eye damage
H318 – causes serious eye damage
Prevention: P280 – Wear eye/face protection and protective gloves
Response: P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



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Section 3: Composition / Information on Ingredients

Mixture

Chemical Name:	CAS#:	Range %
Deionized Water	7732-18-5	>70
Sulfuric Acid	7664-93-9	<15%
Phosphoric Acid	7664-38-2	<15%
Aluminum Borate Silicate Complex	Proprietary	<1.5%

Note: In accordance with GHS Annex 4, section 3.3, some product identification is considered Confidential Business Information.

Section 4: First Aid Measures

General Information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed: Irritation of skin, eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed: In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Eye Contact:	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician if irritation persists.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse.
Inhalation:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Call a physician immediately.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Dilute by drinking two large glasses of water. Call a physician immediately.
General Advice:	If you feel unwell, seek medical advice (show the label when possible).

Section 5: Fire Fighting Measures

Flammable Properties: Substance itself is water based and does not burn.

Extinguishing Media

Suitable Media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Media:

Specific hazards arising from the chemical: No unusual fire or explosion hazards noted.

Protective equipment and Precautions for firefighters: Wear self-contained breathing apparatus and protective clothing.
Fire-fighting equipment or

Section 6: Accidental Release Measures

Personal Precautions: Contain and recover liquid when possible. Cover drains or cap spill when safe. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Small spills may be flushed to the sanitary sewer with approval from local authorities.



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- Environmental Precautions:** Stop leak if you can do it without risk. If possible, keep from entering into drains, surface water, or ground water. Neutralize acid spill with limestone, lime dust, or sodium carbonate (soda ash). Once neutralized, the spill is considered safe to handle. This product is biodegradable.
- Methods for Containment:** Stop the flow of material, if this is without risk. Dike the spilled materials, where this is possible.
- Methods for Cleaning Up**
- Non-Emergency Personnel:** For non-emergency personnel, ventilate area of leak or spill and remove all ignition sources. Wear appropriate personal protective equipment as required to prevent any contamination of skin, eyes, and personal clothing. Isolate release area. Do not touch or walk through spilled material unless wearing the appropriate protective equipment. Keep unnecessary and unprotected personnel from entering.
- Emergency Personnel:** For emergency responders, as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Section 7: Handling and Storage

- Handling:** Do not modify the storage container as to make it unsafe. Use caution when opening container as unit may be under mild pressure due to weather or temperature changes. Do not mix with any other chemical unless specifically recommended by manufacturer. Avoid spills into the work or outside environment. Do not eat, drink, or smoke in work areas. Wash hands after use. Remove any contaminated clothing and protective equipment before entering eating areas.
- Storage:** Protect against physical damage. Store in a cool, dry, well-ventilated location. Avoid storing in direct sunlight when possible. Separate from incompatible materials such as strong bases, oxidizers such as bleaches, and reducing agents such as nitrites which are used as a rust inhibitor. Store mixture in polypropylene or polyethylene containers only. Do not store in metal containers, including stainless steel.

Section 8: Exposure Controls / Personal Protection

- Exposure Controls Appropriate Engineering Controls:**
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.
- Environmental Exposure:** No special measures required. Avoid release to the environment.
- DNEL:** Unavailable.
PNEC: Unavailable.
- Personal Protective Equipment**
- Eye/Face Protection:** Safety glasses with polycarbonate lenses or face shield.
Skin/Hand Protection: Nitrile gloves.
- Respiratory Protection:** No personal respiratory protective equipment required for normal use. Use an approved NIOSH/MSHA air respirator where use may cause overexposure.
- General Hygiene:** Handle in accordance with good industrial hygiene and safety practices.
Other: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.



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Section 9: Physical and Chemical Properties

Appearance: Yellow liquid	Density:
Physical State: Liquid	Flash Point: DNF
Form: Free flowing liquid	Flammability limits in air, upper, % by volume: Not Available
Color: Yellow	Flammability limits in air, lower, % by volume: Not Available
Odor: Strong / Sharp	Auto-Ignition Temperature: Not available
pH: 1.5 – 2.5	VOC: 10 g/L (3g/L RTU)
Vapor Pressure: Not Available	Evaporation Rate: Not Available
Vapor Density: Not Available	Viscosity: Not Available
Boiling Point: Not Available	% Volatile including water: Not Available
Melting Point/Freezing Point: Not Available	Decomposition Temperature: Not tested
Solubility (Water): 100% Soluble	Explosivity: Not Available
Specific Gravity: 1.04 – 1.06 @ 70°F (1.00 – 1.04 RTU)	Surface Tension: Not Available

Section 10: Chemical Stability and Reactivity Information

Chemical Stability:

Material is stable under normal conditions. **Conditions to Avoid:** None under normal conditions.

Incompatible Materials: Avoid contact with strong bases such as sodium or potassium hydroxide as they may cause rapid heat evolution. Contact with strong oxidizers such as chlorine or oxygen bleach may rapidly evolve toxic or flammable gases such as chlorine gas or oxygen. Contact with soft metals such as aluminum, zinc, magnesium, or galvanized metal may evolve hydrogen gas. Contact with reducing agents such as sodium nitrite may evolve toxic nitrous gas. Do not mix with any other chemical unless instructed to do so by manufacturer.

Hazardous Decomposition Products:

In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, soot, and smoke may be produced.

Possibility of Hazardous Reactions:

Hazardous polymerization does not occur.

Conditions To Avoid:

Soft metals such as aluminum or zinc. Strong acids.

Section 11: Toxicological Information

Acute Toxicity:	Does not meet criteria.
Skin Corrosion/Irritation:	Skin Corrosion/Irritation - Category 1a
Serious Eye Damage/Irritation:	Serious Eye Damage/Eye Irritation - Category 1
Respiratory or Skin Sensitization:	Does not meet criteria.
Germ Cell Mutagenicity:	Does not meet criteria.
Carcinogenicity:	Does not meet criteria.
Reproductive Toxicity:	Does not meet criteria.
STOT Single Exposure:	Does not meet criteria.
STOT Repeated Exposure:	Does not meet criteria.



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Aspiration Hazard: Does not meet criteria.
Target Organs: Skin, Central Nervous System

POTENTIAL HEALTH EFFECTS

Inhalation Acute: May irritate or burn nose, throat and lungs
Inhalation Chronic: Vapors or mists may aggravate pre-existing lung conditions
Skin Acute: May cause irritation or burns, redness or severe pain. Prolonged exposure should be avoided.
Skin Chronic: Sensitivity of the skin may occur with repeated, prolonged exposure.
Eye Acute: May irritate or burn eyes. Prolonged exposure to eyes may cause permanent damage and should be avoided.
Eye Chronic: No data available.
Ingestion Acute: May irritate or burn nose, throat and lungs.
Ingestion Chronic: No data available.

MIXTURE INGREDIENT INFORMATION

Mixture ingredients are at a concentration which is not sufficient to contribute to the overall health effects of the mixture.

Section 12: Ecological Information

Ecotoxicity: Not enough information is available
Persistence and Degradability: Not enough information is available. The product is biodegradable
Bioaccumulation / Accumulation: Not enough information is available
Mobility / Mobility in Soil: The product is miscible with water. May be spread in water systems.
Other Adverse Effects: Not enough information is available.

Section 13: Disposal Considerations

Disposal Instructions: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
Waste from Residues / Unused Product: Material should be recycled if possible.
Contaminated Packaging: Where possible, recycling is preferred to disposal or incineration.

Section 14: Transport Information

DOT (US): UN1760, Corrosive Liquid, NOS (Sulfuric Acid, Phosphoric Acid), 8, PGIII



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Section 15: Regulatory Information

US Federal Regulations:

TSCA: All components are on the USEPA TSCA Inventory List.
CARCINOGENICITY: Not listed by IARC, NTP, or OSHA
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
SARA TITLE III Information: None Reportable

Section 16: Other Information

Manufacturer Disclaimer: The information given within this MSDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representation of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded three (3) years.