

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 49 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- -			HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B			
Manufacturer's Name: RITE-KEM, INC. Address: 703 Westmoreland Drive Tupelo, MS 38803			DOT Hazard Classification: Corrosive liquid, n.o.s., 8, UN1760, PGIII Identity (trade name as used on label): <p style="text-align: center;">ALUMINUM BRIGHTENER</p>			
CAGE 0VVN0 GSA GS-07F-0283J						
Date Prepared: 10/10/2007 Prepared By: ML			MSDS Number: aluminum brightener Revision -4			
Information Calls: (662)840-6060 / (800)841-5351 EMERGENCY RESPONSE NUMBER: 1(800)424-9300			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PHOSPHORIC ACID		7664-38-2	YES	1mg/m3	1mg/m3	d
SULFURIC ACID		7664-93-9	YES	1mg/m3	1mg/m3	d
AMMONIUM BIFLUORIDE		1341-49-7		2.5 mg/m3	2.5mg/m3	d
Percentages and non-hazardous ingredients are trade secrets						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: 100°C			Specific Gravity (H ₂ O=1): 1.26			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A			
Vapor Density (Air = 1): N/A			Evaporation Rate (water= 1): 1.0			
Solubility in Water: Miscible			Water Reactive: None			
Appearance and Odor: Clear non-viscous fluid with pungent odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A		
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible			SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved breathing apparatus & full protective gear when fighting fires. Spray containers with water to keep cool & prevent ruptures.			
EXTINGUISHER MEDIA: Non-combustible, use media applicable to surrounding fire						
Unusual Fire & Explosion Hazards: Avoid exposure to metals, oxidants which might product flammable hydrogen gas.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Bases, alkalis, metals, mercuric sulfate, carbides of calcium, cesium, rubidium, acetylides, phosphides, silicides.			Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat. High temperatures.			
Hazardous Decomposition Products: Hydrogen fluoride gas, oxides of phosphorous, nitrogen and carbon, unidentified organics.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: Irritant causing burning, choking, coughing, headache.						
Eye Contact: Irritation, severe burns & permanent damage including blindness.			Skin Contact: Burning, irritation, dermatitis.			
Ingestion: Unlikely route-causes severe burns to internal organs.						
CHRONIC EFFECTS: None known.						
Medical Conditions Generally Aggravated by Exposure: Skin, eye, mucous membrane irritation.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Wash eyes for 15 minutes. Get immediate medical attention.						
Skin Contact: Remove contaminated clothing, wash skin with water for 15 minutes.						
Inhalation: Move to fresh air. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): Approved self-contained breathing apparatus when use concentrations exceed 100 ppm HCl vapors.						
Protective Gloves: Neoprene.			Eye Protection: Chemical goggles or face shield.			
Ventilation Requirements: As necessary to maintain air concentration below 5 ppm at all times.						
Other Protective Clothing & Equipment: Neoprene or PVC rain suit & boots in case of fire. Safety showers & eyewash stations should be available.						
Hygienic Work Practices: Wash hands after use. Do not eat, drink or smoke in immediate area.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Contain fluid by diking. Neutralize with soda ash or baking soda.						
Waste Disposal Methods: Neutralize material may be washed down the sewer. Absorbed material to be boxed and disposed of in compliance with local, state and federal regulations.						
Precautions To Be Taken In Handling & Storage: Store in closed labeled containers. Keep in cool, metal free area for not more than one year.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Do not store near strong alkalies or other reactive materials.						

SECTION 8 – TRANSPORTATION INFORMATION

US Department of Transportation

Shipping Name: CORROSIVE LIQUIDS,N.O.S., (Phosphoric Acid/Sulfuric Acid)
Hazard Class: 8
Label: CORROSIVE LIQUIDS,N.O.S., (Phosphoric Acid/Sulfuric Acid),8,UN1760,PGIII
Exemption: ON CONTAINERS OF 1 GL OR LESS CONTENT: ORM-D

IMDG:

Proper Shipping Name: CORROSIVE LIQUIDS,N.O.S., (Phosphoric Acid/Sulfuric Acid)
Hazard Classification: 8
International Marine UN Number: 1760
Packing Group: III
Subsidiary Hazard:
Subsidiary Packing Group:
MFAG Table No. :
EMS No. :
Flash point (test method)
IMDG Page Number:
Label: CORROSIVE LIQUIDS,N.O.S., (Phosphoric Acid/Sulfuric Acid),8,UN1760,PGIII

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only