

SAFETY DATA SHEET

Issue Date 11/9/2004 Revision Date 12/11/2013

Product Name Supplier Name and Address SmartWash ®Aluma Bright Whiting Systems, Inc.

9000 Highway 5 North Alexander, AR 72002 Recommended Use Cleaning agent. 800-542-9031

INFOTRAC 352-323-3500 (International) 800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Signal word **Danger**



Toxic if swallowed Harmful if inhaled

Causes severe skin burns and eye damage

Appearance Blue liquid

Physical state Liquid

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Acute toxicity - Oral

Skin corrosion/irritation

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS **Chemical Name** CAS No Weight-%

Trade Secret 7664-93-9 Sulfuric acid 5-10 Hydrogen fluoride 7664-39-3 5-10

4. FIRST AID MEASURES

General advice

When seeking medical attention, emphasize exposure to hydrofluoric acid.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is required. If breathing is difficult, Inhalation:

give oxygen. If breathing has stopped, give artificial respiration.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate

medical attention is required. Irrigate open eyelids with 500 to 1,000 cc's of 1% Calcium Gluconate in saline solution.

Rinse mouth. Do NOT induce vomiting. Immediate medical attention is required. Drink high amounts of calcium based antacid in water followed Ingestion:

by milk or milk of magnesia. Never give anything by mouth to an unconscious person.

Skin Contact: Remove contaminated clothing while flushing area with drenching shower for 5 minutes. Wash contaminated clothing before reuse. Immediate

medical attention is required. Apply 2.5% Calcium Gluconate ointment to contacted area.

Most important symptoms and effects, both acute and delayed

May cause irritation to the mucous membranes and upper respiratory tract. Contact will cause irritation and redness to exposed areas. Ex-Symp-

posed individuals may experience eye tearing, redness and discomfort. Irritation and corrosive burns to mouth, throat, and stomach.

Note to physicians

Treat symptomatically. Existing conditions aggravated by exposure: skin disorders, skin allergies, respiratory disorders, eye disorders. Inhaling HF vapors can seriously damage the lungs. Delayed reactions up to and including fatal pulmonary edema may not be apparent for hours after the initial exposure. In 20%-50% HF concentrations, burns can be delayed 1 to 8 hours. Concentrations of less than 20% HF may cause delayed painful erythema up to 24 hours after contact. Latent skin burns and necrosis with slow healing can occur even at concentrations of 2% HF.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO2). Water spray (fog). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media Do not use solid streams of water, except to cool closed containers.

Specific hazards arising from the chemical Keep containers cool with water spray to prevent container rupture due to steam buildup. Contents are corrosive and all personal contact must be avoided. Contact with B:C extinguisher powder may produce large amounts of carbon dioxide. Contact with metals may evolve flammable hydrogen gas.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment as required.

Environmental precautions: Do not allow into any sewer, on the ground or into any body of water. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions on reporting require-

Methods for containment: Confine and absorb into approved absor-Methods for cleaning up: Place in appropriate containers for disposal.

7. HANDLING AND STORAGE

Advice on safe handling: Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Protect container from physical damage.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Protect from extreme

Packaging materials: This product will attack glass, concrete, and certain metals.

Incompatible materials: Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Ceramics.

Version 1

1. IDENTIFICATION

Emergency Telephone

Category 3

Category 4

Category 1

Category 1 Sub-category A

Hazard statements

Odor Acrid Acid odor

Precautionary Statements - Prevention

Serious eye damage/eye irritation

Acute toxicity - Inhalation (Dusts/mists)

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Sulfuric acid

Chemical Name ACGIH TLV Hydrogen Fluoride

7664-39-3 F S* Ceiling: 2 ppm F

TWA: 0.5 ppm F TWA: 2.5 mg/m3

OSHA PEL TWA: 3 ppm F TWA: 2.5 mg/m3 F (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m3 (vacated)

STEL: 6 ppm F

IDLH: 30 ppm Ceiling: 6 ppm 15 min Ceiling: 5 mg/m3

NIOSH IDLH

15 min TWA: 3 ppm TWA: 2.5 mg/m3

IDLH: 15 mg/m3 TWA: 1 mg/m3

TWA: 0.2 mg/m3 thoracic fraction 7664-93-9

TWA: 1 mg/m₃ (vacated) TWA: 1 mg/m3

Other Information

Airborne concentrations of 10-15 ppm will irritate the eves, skin, and respiratory tract; 30 ppm is considered "Immediately Dangerous to Life and Health" (IDLH) and may have irreversible health effects; above 50 ppm, even brief exposure may be fatal.

Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear approved safety goggles. Wear safety glasses with side shields (or goggles).

Skin and body protection: Saranex, Barricade, Chemrel, Responder, or Butyl rubber gloves required. Do not use nitrile rubber, polyvinyl alcohol, or polyvi-

nyl chloride. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent

skin contact.

Respiratory protection: None needed under normal use conditions with adequate ventilation. If the occupational exposure limits are exceeded, a NIOSH

> approved respirator with acid gas cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good indus-

trial hygiene practice.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES						
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Property</u>	<u>Values</u>	<u>Remarks</u>	
рН	<1		Vapor density	>1	(Air=1)	
Melting point/freezing point	Not determined		Specific Gravity	1.04	(1=Water)	
Boiling point/boiling range	100 °C / 212 °F		Water solubility	Completely soluble		
Flash point Evaporation	Non-flammable		Solubility in other solvents	Not determined		
rate Flammability (solid,	<1	(water = 1)	Partition coefficient	Not determined		
gas) Flammability Limits in Air	n/a-liquid		Autoignition temperature	Not determined		
Upper flammability limits	Not applicable		Decomposition temperature	Not determined		
Lower flammability limit	Not applicable		Kinematic viscosity	Not determined		
Vapor pressure	17 mm Hg	@ 20 °C	Dynamic viscosity	Not determined		
			Explosive properties	Not determined		
			Oxidizing properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity **Chemical stability Possibility of Hazardous Reactions**

Not reactive under normal conditions Stable under recommended storage conditions. None under normal processing.

Conditions to avoid Hazardous polymerization

Extreme temperatures. Hazardous polymerization does not occur. Non-hazardous endothermic polymerization may occur in both the liquid and gas phases.

Incompatible materials **Hazardous Decomposition Products**

Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Decomposition will not occur if handled and stored properly. In case of fire, oxides of Ceramics. carbon, hydrocarbons, fumes or vapors, and smoke may be produced. Fluorine.

11. TOXICOLOGICAL INFORMATION

information on likely routes of exposure		Component Information				
Inhalation	Harmful if inhaled.	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Eye contact	Causes severe eye damage.	Hydrogen fluoride 7664-39-3	-	-	1276 ppm (Rat) 1 h 850 mg/m3 (Rat) 1 h	
Skin Contact	Causes severe skin burns.	Sulfuric acid	2140 mg/kg (Rat)	-	347 ppm (Rat) 1 h 510	
Ingestion	Toxic if swallowed	7664-93-9	3.19 (1.01)		mg/m3 (Rat) 2 h	

<u>Carcinogenicity</u> Note: The agencies below have listed Strong Inorganic Acid Mists, containing Sulfuric Acid as a known carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric acid	A2	Group 1	Known	X
7664-93-9		·		

Other adverse effects Not determined

12. ECOLOGICAL INFORMATION

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal Other adverse effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes/Contaminated packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status: considers Sulfuric acid (7664-93-9) as Toxic Corrosive

Whiting Systems, Inc.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN1786 **Subsidiary class** Hydrofluoric acid and Sulfuric acid Proper shipping name

Packing Group

mixtures Reportable Quantity (RQ) hydrofluoric acid 100 lbs; sulfuric acid 1000 lbs 8

Hazard Class

Cargo Aircraft only **IATA**

6.1

RQ 45.4 kg final

RQ

IMDG UN/ID No UN1786 UN/ID No UN1786

Hydrofluoric acid and Sulfuric acid Hydrofluoric acid and Sulfuric Proper shipping name

acid mixture

Hazard Class Hazard Class Subsidiary hazard class 6.1 Subsidiary hazard class 6.1 **Packing Group Packing Group**

15. REGULATORY INFORMATION

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances-ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances-ENCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold
			Values %
Hydrogen fluoride	7664-39-3	10 - 5	1
Sulfuric acid	7664-93-9	10 - 5	1

SARA 311/312 Hazard Categories

Proper shipping name

Chemical Name	CWA - Reportable		CWA - Toxic Pol- lutants		CWA - Priority Pol- lutants		CWA - Hazardous
	Quantities						Substances
Sulfuric acid	1000 lb						X
7664-93-9	1						
Hydrogen fluoride	100 lb						Х
7664-39-3	-						
Chemical Name		Hazardous Sub- stances RQs		CERCLA/SARA RQ		Reportable Quan- tity (RQ)	
Sulfuric acid		1000 lb		1000 lb		RQ 1000 lb final RQ RQ 454 kg final	
7664-93-9						RQ	
Hydrogen fluoride		100 lb		100 lb		RQ 100 lb final RQ	

US State Regulations California Proposition 65 Considers Sulfuric acid (7664-93-9) as a Carcinogen

U.S. State Right-to-Know Regulations

7664-39-3

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen fluoride	X	X	X
7664-39-3			
Sulfuric acid	X	X	X
7664-93-9			

16. OTHER INFORMATION

NFPA	Health hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determine
HMIS	Health hazards	Flammability	Physical hazards	Personal protection Not determined

Issue Date 11/9/2004 Revision Date 12/11/2013

Disclaimer

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 may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.