

Issue Date: 09-Nov-2004 Revision Date: 16-Nov-2022 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name SmartWash Aluma Bright Concentrate

Other means of identification

**SDS #** WS-004R

UN/ID No UN1790

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning agent.

Details of the supplier of the safety data sheet

**Supplier Address** 

Whiting Systems, Inc. 9000 Highway 5 North Alexander, AR 72002

**Emergency Telephone Number** 

**Company Phone Number** 1-800-542-9031

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Clear liquid Physical State Liquid Odor acrid Acid odor

#### Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

# Signal Word Danger

**Hazard Statements** 

Toxic if swallowed Toxic if inhaled

Fatal in contact with skin Causes severe skin burns and eye damage



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#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

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

Use only outdoors or in a well-ventilated area

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

### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

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

Immediately call a poison center or doctor/physician

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

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No	Weight-%	
Monocarbamide Dihydrogen Sulfate	21351-39-3	5-10	
Hydrogen fluoride	7664-39-3	5-10	

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

# First Aid Measures

**General Advice** When seeking medical attention, emphasize exposure to hydrofluoric acid.

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.

**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.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediate medical attention is required. If breathing is difficult, give oxygen. If breathing

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has stopped, give artificial respiration.

**Ingestion** Rinse mouth. Do not induce vomiting. Immediate medical attention is required. Drink high

amounts of calcium based antacid in water followed by milk or milk of magnesia. Never give

anything by mouth to an unconscious person.

#### Most important symptoms and effects

**Symptoms** May cause irritation to the mucous membranes and upper respiratory tract. Contact will

cause irritation and redness to exposed areas. Exposed individuals may experience eye tearing, redness and discomfort. Irritation and corrosive burns to mouth, throat, and

stomach.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician 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 soft 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, protective equipment and emergency procedures

**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 concerning reporting requirements. See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Confine and absorb into approved absorbent.

**Methods for Clean-Up** Place in appropriate containers for disposal.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Wash face, hands, and any exposed skin 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

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container from physical damage.

#### Conditions for safe storage, including any incompatibilities

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 temperatures.

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

Incompatible Materials Strong oxidizing agents. Strong alkalis. Metals. Cyanides. Sulfides. Glass. Ceramics.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen fluoride	TWA: 0.5 ppm F TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 ppm F TWA: 2.5 mg/m <sup>3</sup> F	IDLH: 30 ppm
7664-39-3	F	TWA: 2.5 mg/m <sup>3</sup> dust	Ceiling: 6 ppm 15 min
	S*	(vacated) TWA: 3 ppm F	Ceiling: 5 mg/m <sup>3</sup> 15 min
	Ceiling: 2 ppm F	(vacated) TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 ppm
	1	(vacated) STFL 6 ppm F	TWA: 2.5 mg/m <sup>3</sup>

Other Information Airborne concentrations of 10-15 ppm will irritate the eyes, 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.

#### Appropriate engineering controls

**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 polyvinyl chloride. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

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 industrial hygiene practice.

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Liquid

Appearance Odor

Clear liquid acrid Acid odor

ColorOdor ThresholdColorlessNot determined

Property Remarks • Method

<u>Values</u>

**Vapor Density** 

**pH** <2

<0 °C /<32 °F **Melting Point/Freezing Point Boiling Point/Boiling Range** > 100 °C / > 212 °F **Flash Point** Non-flammable **Evaporation Rate** Not determined Flammability (Solid, Gas) n/a-liquid **Upper Flammability Limits** Not applicable **Lower Flammability Limit** Not applicable **Vapor Pressure** Not determined

Specific Gravity 1.066 (1=Water)

Not determined

Water Solubility Soluble

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

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

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### **Conditions to Avoid**

Extreme temperatures.

#### **Incompatible Materials**

Strong oxidizing agents. Strong alkalis. Metals. Cyanides. Sulfides. Glass. Ceramics.

### **Hazardous Decomposition Products**

Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced. Fluorine.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. Fatal in contact with skin.

**Inhalation** Toxic if inhaled.

**Ingestion** Toxic if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Monocarbamide Dihydrogen Sulfate	= 350 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
21351-39-3			
Hydrogen fluoride	-	-	= 0.79 mg/L (Rat) 1 h
7664-39-3			· , ,

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

#### **Numerical measures of toxicity**

Not determined

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen fluoride 7664-39-3		660: 48 h Leuciscus idus mg/L LC50		270: 48 h Daphnia species mg/L EC50

Persistence/Degradability Not determined.

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### **Bioaccumulation** Not determined.

### **Mobility**

Chemical Name	Partition Coefficient
Hydrogen fluoride	-1.4
7664-39-3	

Other Adverse Effects Not determined

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# **US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen fluoride	U134			U134
7664-39-3				

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

**UN/ID No** UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

Reportable Quantity (RQ) Hydrofluoric acid 100 lbs

**IATA** 

UN/ID No UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group ||

<u>IMDG</u>

UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

# 15. REGULATORY INFORMATION

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### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Monocarbamide Dihydrogen Sulfate	Present	Х		Present		Present				
Hydrogen fluoride	Present	Х		Present		Present	Х	Present	Χ	Х

# Legend:

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

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen fluoride	100 lb	100 lb	RQ 100 lb final RQ
7664-39-3			RQ 45.4 kg final RQ

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrogen fluoride - 7664-39-3	7664-39-3	5-10	1.0

# **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen fluoride	100 lb			Χ

# **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen fluoride	X	X	X
7664-39-3			

# 16. Other Information

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### **NFPA**

Health Hazards
Flammability
Instability
Special Hazards
Not determined
Not determined
Not determined

### **HMIS**

Health Hazards 3 Flammability 0 Physical Hazards 1

Personal Protection Not Determined

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Revision Note: New formula

# **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.

**End of Safety Data Sheet**