

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Aluminum Cleaner

Revision: 12/1/2017

1. Identification

Product identifier

Product name: Aluminum Cleaner

Product number: ALC

Recommended use and restriction on use

Recommended use: Aluminum brightener

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Verax Chemical Company
20102 Broadway Ave
Snohomish, WA 98296
Tel: 360-668-2431

Emergency telephone number

USA: (800) 535-5053 International: +1 (352) 323-3500

2. Hazard(s) identification

Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class and category	Hazard statement code(s)	
Acute toxicity, oral	Cat. 3.	H301
Skin corrosion/irritation	Cat. 1.	H314
Serious eye damage/eye irritation	Cat. 1.	H318

Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) Hazard pictograms

Signal word: Danger

Pictograms



GHS05 GHS06

Hazard statements

H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Precautionary statements - prevention

Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements – response

Immediately call a POISON CENTER or doctor

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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.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary statements – storage

Store in a well-ventilated place. Store locked up.

Precautionary statements – disposal

Dispose of contents / container in accordance with local / regional / national / international regulations

3. Composition/information on ingredients

Chemical Name	CAS No.	Weight %
Hydrofluoric Acid	7664-39-3	<8
Sulfuric Acid	7664-93-9	<8

Additional information:

**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

Description of first aid measures

General Advice

Immediately call a poison center or doctor/physician. Show this Safety Data Sheet to the doctor in attendance.

After inhalation

Remove to fresh air. Obtain medical attention if asthma-like symptoms or other symptoms develop.

After skin contact

Wash off immediately with plenty of water, for at least 15 minutes. Remove and wash contaminated clothing before reuse. Get immediate medical attention while applying and massaging in 2.5% Calcium Gluconate gel.

After eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

After swallowing

Do not induce vomiting. Give large amounts of water if conscious. Never give anything by mouth to an unconscious person. Call doctor immediately.

Indication of any immediate medical attention and special treatment needed

Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing agents

Carbon dioxide (CO₂), dry chemical, foam.

Unsuitable extinguishing agents: Not determined.

Special hazards arising from the substance or mixture

None.

Advice for firefighters

Protective equipment:

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing vapors. Ventilate area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment/clean-up

Large Spills: Contain actively spilling material if safe and easy to do so. Dike the spilled material, where this is possible. Utilize absorbent clay or sand to contain and stop spreading material. Small Spills: Utilize absorbent clay or sand and transfer to waste receptacles. Collect all contaminated clay, media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize mineral spirits or other solvents, provided adequate ventilation is available.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

Precautions for safe handling

Recommendations

Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.

Information about protection against explosions and fires: No special measures required.

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Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool area in product container.

Incompatible substances or mixtures

Store away from strong alkalis and strong oxidizing agents. Refer to Section 10.

Specific end use(s): No relevant information available.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS No.	Type	[ppm]	[mg/m ³]
Hydrofluoric acid	7664-39-3	PEL	-	2
Sulfuric Acid	7664-93-9	PEL	-	1

US. ACGIH Threshold Limit Values

Chemical Name	CAS No.	Type	[ppm]	[mg/m ³]
Hydrofluoric acid	7664-39-3	TWA	2	-
Sulfuric Acid	7664-93-9	TWA	-	0.2

Notation

PEL Permissible exposure limit.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

Exposure controls

Appropriate engineering controls

Local exhaust ventilation should be utilized to control vapors / substances below exposure limits. Eye wash facilities must be available when handling this product.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

Eye/face protection

Wear safety goggles or face shield.

Skin and body protection

Wear solvent resistant gloves.

Respiratory protection

Utilize organic vapor respirator if airborne levels are not maintained below exposure limits, or if ventilation is inadequate.

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Other protection measures

None.

Limitation and supervision of exposure into the environment

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Risk management measures No special requirements.

9 Physical and chemical properties

Information on physical and chemical properties

Appearance

Form	Liquid
Color	Clear
Odor	Extremely acrid
Odor threshold	Not determined
pH	<1
Melting point/freezing point	Not determined
Boiling point/boiling point range	Not determined
Flash point	Not available
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not determined
Flammability limit – upper (%)	Not determined
Explosive limit – lower (%)	Not determined
Explosive limit – upper (%)	Not determined
Vapor Pressure at 20°C (68°F)	Not determined
Density at 20°C (68°F)	1.04 g/cm ³ (8.66 lbs/gal)
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not determined
Viscosity	Not determined
Other information	No relevant information available

10 Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport

Chemical stability

The product is stable under normal conditions

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Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point. Reacts with strong alkali. Reacts with strong oxidizing agents.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Toxic substances may be released in the event of a fire.

11 Toxicological information

Information on likely routes of exposure

Product Information

Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrofluoric Acid 7664-39-3	-	-	-
Sulfuric Acid 7664-93-9	=2140 mg/kg (Rat)	-	-

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

Not tested.

12 Ecological information

No specific data available.

13 Disposal considerations

Waste treatment methods

Disposal Recommendations

The user of this material has the responsibility to dispose of unused material, residues and containers in

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compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

DOT

UN number	UN2922
UN proper shipping name	Corrosive liquid, toxic liquid, NOS (hydrofluoric and sulfuric acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Label(s)	8
Packing group	II
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling
Special provisions	-
Packaging exceptions	-
Packaging non bulk	None
Packaging bulk	None

IATA

UN number	UN2922
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Label(s)	8
Packing group	II
Environmental hazards	No
ERG Code	-
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling
Other information	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed
Packaging Exceptions	-

IMDG

UN number	UN2922
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Label(s)	8
Packing group	II
Environmental hazards	
Marine Pollutant	No
EmS	Not available
Special precautions for user	Read safety instructions, SDS, and emergency procedures

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Packaging Exceptions
Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code

before handling
-
Not applicable

15 Regulatory information

International Inventories

All ingredients are listed or exempt from listing on Chemical Substance Inventory

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric Acid 7664-39-3	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Sulfuric Acid 7664-93-3	1000	-	RQ 1000 lb final RQ 454 kg final RQ

SARA 313

Hydrofluoric acid and Sulfuric acid.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Preparation / current revision: 12/1/2017 /

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers