Safety Data Sheet

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Section 1. Chemical Product and Company Identification

Product Name	CCL HF Powered Aluminum Brightener
Product Use	Acid cleaner
Product Code	3888-2070-A
Date of Issue	03/14/2017
Supersedes	NONE

Emergency Telephone Numbers
CHEMTREC- 1-800-424-9300
(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

Section 2. Hazards Identification

Emergency Overview

DANGER

Health Hazards

Acute Toxicity; Oral, Inhalation	Category 4
Skin Corrosion/Irritation	Category 1
Serious eye damage/ eye irritation	Category 1

Precautionary Statements:

P260	Do not breathe in mist, vapors or fumes
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke while using this product
P271	Use outdoors or in a well-ventilated area
P280	Wear protective gloves/clothing/eye protection/face protection
P301+P330+P331+P312	IF SWALLOWED: rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353	IF ON SKIN (or in hair): remove all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: remove victim to fresh air and keep in comfortable position for breathing
P305+P351+338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or physician
P363	Wash contaminated clothing before reuse
P405	Store locked up
P501	Dispose of in accordance with all federal, state and local regulations

Hazard Statements:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled

Routes of Entry **Dermal, Oral, and Inhalation**

Acute Effects:

Eyes	Vapors, liquids and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mists can severely damage the eyes, and prolonged contact may cause permanent eye injury, which may be followed by blindness.
Skin	Vapors, mists and liquid are extremely corrosive to the skin. Vapors will severely irritate the skin and liquids and mists will severely burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue.
Inhalation	Vapors and mists are extremely corrosive to the nose, throat and mucous membranes. Bronchitis, pulmonary

edema and chemical pneumonitis may occur. Irritation, coughing, chest pain, and difficulty breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Onset of symptoms may be delayed several hours. Breathing high concentration for several minutes may result in death several hours later.

Ingestion Vapors, liquids and mists are extremely corrosive to the mouth, and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting, kidney damage, and collapse. Swallowing large quantities can cause death.

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS Number	% by Weight
Hydrogen Fluoride	7664-39-3	<5
Sulfuric Acid	7664-93-9	<10
Phosphoric Acid	7664-38-2	<5
2-butoxyethanol	111-76-2	<5

Section 4. First Aid Measures

Eye Contact Flush immediately with clean water for at least 15 minutes. Seek immediate medical attention. Treat all cases like hydrofluoric acid contact.

Skin Contact Flush immediately with clean water for 15 minutes. If burns or rash develop, seek medical attention. Treat all cases like hydrofluoric acid contact.

Inhalation Remove to fresh air. Begin CPR if breathing has stopped and seek immediate medical attention.

Ingestion Do not induce vomiting. Give several glasses of water. Never give anything to an unconscious person orally. Seek immediate medical attention.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)
(estimated rating)

Hazardous Combustion Products Not combustible

Extinguishing Media Media applicable to surrounding fire.

Unsuitable Extinguishing Media N/A

Fire Fighting Procedures Wear protective gear. Use water spray to cool fire-exposed containers.

Section 6. Accidental Release Measures

Spill Clean Up All spilled material must be contained and kept out of waterways, sewers and drains. The spilled chemical should be absorbed with an inert material. Flush cleaned area thoroughly with water.

Section 7. Handling and Storage

Handling and Storage Keep container tightly closed when not in use. Store at moderate temperatures. Do not contaminate. Keep from freezing. Keep out of the reach of children. Have eyewash accessible to use in handling area.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Hydrogen Fluoride (7664-39-3)	3ppm	3ppm		0.5ppm
Sulfuric Acid (7664-93-9)	1mg/m^3	1mg/m^3		0.2mg/m^3
2-butoxyethanol (111-76-2)	50ppm	5ppm		20ppm
Phosphoric Acid (7664-38-2)	1mg/m^3	1mg/m^3		1mg/m^3

Engineering Controls Local exhaust is normally adequate

Personal Protective Equipment (PPE)

Eyes Chemical splash goggles or face shield
Body Rubber or neoprene gloves, rubber aprons
Respiratory Use NIOSH approved respirator if exposure limits are reached or exceeded

Section 9. Physical and Chemical Properties

Physical State	Liquid	**Explosive Limits**	N/A
Color	Clear	**Vapor Pressure**	N/A
Odor	Slightly acidic odor	**Vapor Density**	N/A
Odor Threshold	N/A	**Relative Density**	N/A
pH	0.0-1.0	**Solubility**	Complete
Freezing Point	N/A	**Partition Coefficient**	N/A
Boiling Point	N/A	**Auto-Ignition Temp.**	N/A
Flash Point	Not combustible	**Decomposition Temp.**	N/A
Evaporation Rate	>1	**Viscosity**	N/A
Flammability	Non-Flammable	**Specific Gravity**	1.06-1.13

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Incompatibility	Alkaline materials and will etch glass
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	None
Conditions to Avoid	N/A

Section 11. Toxicological Information

Routes of Entry	Dermal, oral and inhalation
Symptoms	Irritation, corrosion
Skin Irritant	Yes
Eye Irritant	Yes
Sensitizers	Not determined
Mutagenicity	No information found
Carcinogenicity	Sulfuric Acid (7664-93-9) is classifiable as a human carcinogen when in mist form 2-butoxyethanol (111-76-2): IARC Group 3 (not classifiable as a human carcinogen)
Reproductive Toxicity	No information found
Target Organs	None

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

Acute Toxicity

Test	Results	Basis
Dermal	3,680 mg/kg	ATE determined beyond Category 4
Oral	1,350 mg/kg	ATE determined Category 4
Inhalation	2.01 mg/l	ATE determined Category 4

Section 12. Ecological Information

Environmental Effects No ecological information available

Section 13. Disposal Considerations

Waste Information Dispose of in accordance with all Federal, State and Local pollution control regulations.

Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN3265	Corrosive Liquid, acidic, inorganic, n.o.s. (Sulfuric Acid, Hydrofluoric Acid & Phosphoric Acid)	8	PGI	Corrosive

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

US Federal Regulations The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313:

Hydrogen Fluoride	7664-39-3	<5%
Sulfuric Acid	7664-93-9	<10%
2-butoxyethanol	111-76-2	<5%

The following substances have CERCLA reportable quantity values (in pounds):

Hydrogen Fluoride	**7664-39-3**	**100**
Sulfuric Acid	**7664-93-9**	**1,000**
Phosphoric Acid	**7664-38-2**	**5,000**

State Regulations None

Section 16. Other Information

Last Revision 8/8/2016

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.