Safety Data Sheet

Issue date: 2/18/2015

Section 1: Product and Company Information

Product Identifier: ACS Descaler

Product Code/SKU: 700709

Recommended Use: Lime scale remover

Restrictions on Use: Use only for purpose found on label. Product Dilution Information Use as directed per label instructions

Manufacturer: American Chemical Systems II, LLC

3505 W. 29th Street South Wichita, KS USA 67217

(800)889-3489

americanchemicalsystems.com Chemtrec 1-800-424-9300 USA and Canada

Chemtrec 1-703-527-3887 Outside USA and Canada

Section 2: Hazard Identification

GHS Classification: Corrosive to metals - category 1

Skin irritation/corrosion
Eye irritation/eye damage
May cause respiratory irritation

GHS Labeling Element

Emergency Telephone:

Signal Word:
Symbol:

Danger

Hazard Statement: Corrosive to metals

Causes skin and eye damage May cause respiratory irritation

Precautionary Statements:

Prevention: Wear protective clothing, gloves, and eye

and face protection.

Response:

Storage:

If swallowed: Rinse mouth, do not induce vomiting. If on skin: Wash with water, remove contaminated

clothing.

Inhalation: Remove person to fresh air - administer

artificial respiration if not breathing.

If in eye: Flush continuously with water - remove

contacts and continue flushing with water. Seek medical assistance if symptoms persist.

Treatment: Seek medical assistance if symptoms persist.

Keep product stored in original container, in

an upright position, with container tightly

closed.

Disposal: Dispose of contents/container according to

local/regional regulations.

Other Hazards: None known

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture

Chemical nameProduct Identifier%Phosphoric acidCAS 7664-38-215-25%

Hydrochloric acid CAS 7647-01-0 0-10%

There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to health or to the environment and hence require reporting in this section. Concentration percentages are given as a range as a claim for a trade secret is being made.

Section 4: First Aid Measures

First Aid Measures:

General: Never give anything by mouth to an

unconscious person. If you feel unwell, then

seek medical assistance.

If swallowed: Rinse mouth, do not induce vomiting. If on skin: Wash with water, remove contaminated

clothing.

Inhalation: Remove person to fresh air - administer

 $artificial\ respiration\ if\ not\ breathing.$

If in eye: Flush continuously with water - remove

contacts and continue flushing with water.

Treatment: Seek medical assistance if symptoms persist.

Important Symptoms and Effects, both Acute and Delayed

Symptoms/Injuries: Causes severe skin burns and eye damage.

Effects of exposure may be delayed.

If swallowed: Ingestion is likely to be harmful and have

adverse health effects.

If on skin: Causes skin burns.

Inhalation: Symptoms may cause irritation to the

respiratory tract.

If in eye: Causes eye damage.

Recommendation: Seek medical assistance if symptoms persist

or concerns are present.

First Aid Providers All first aid providers should receive proper training before performing any first aid act

that would involve personal risk. Wash contaminated clothing with water thoroughly

before removal or wear gloves.

Section 5: Firefighting Measures

Suitable Fire Extinguishing

Media: No special media necessary. Use extinguishing media appropriate for surrounding fire. Special Hazards: Product is non flammable and is not explosive. Product is corrosive to metals as sold. Exercise caution when fighting any chemical fire. Use a water spray to cool containers.

Do not enter fire area without proper protective equipment, including respiratory

protection.

Section 6: Accidental Release Measures

Personal Precautions: Initiate company's spill procedures. Do not walk through or touch spilled product. Do not

get on skin, in eyes, or on clothing. Put on appropriate personal protection equipment.

Environmental Precautions: Avoid runoff into public waterways, sewers, or onto soil.

Methods for Clean Up: Follow company's spill procedures. Put on appropriate protective clothing. Neutralize/

absorb spilled product with inert material. Dispose of inert material by placing in suitable container. Dispose of waste safely. Rinse with water for a final clean up.

Section 7: Handling and Storage

Precautions for Safe

Handling: Do not get on skin, in eyes, or on clothing. Do not breathe vapor or mist. Do not handle

until all safety procedures have been read and understood. Wash hands and other

exposed areas with soap and water after handling.

Conditions for Safe Storage: Keep product in original container, in an upright position, with container tightly closed.

Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Ingredient Name Exposure Limits

Phosphoric acid ACGIH TWA (mg/m³) 1 mg/m³

	ACGIH STEL (mg/m³) NIOSH REL (TWA) (mg/m³) NIOSH REL (STEL) (mg/m³) US IDLH (mg/m³) OSHA PEL (TWA) (mg/m³)	3 mg/m ³ 1 mg/m ³ 3 mg/m ³ 1000 mg/m ³ 1 mg/m ³
Hydrochloric acid	ACGIH Ceiling (ppm)	2 ppm
	NIOSH REL (Ceiling) (mg/m ³)	7mg/m ³
	NIOSH REL (Ceiling) (ppm)	5 ppm
	US IDLH (ppm)	50 ppm
	OSHA PEL (Ceiling) (mg/m³)	7 mg/m^3
	OSHA PEL (Ceiling) (ppm)	5 ppm

Engineering Controls: Use adequate ventilation. Keep vapor/fumes

below statutory limits. Provide availability to water to flush skin or eyes in case of

exposure.

Personal Protection:

Hand protection: Wear chemical resistant gloves

Eye protection: Use chemical splash goggles. For severe

exposure, wear face shield.

Skin protection: Wear suitable protective clothing.

Respiratory protection: Not necessary under normal operating and

intended use of this product.

General: Wash hands, face, and arms after handling chemical products and before eating, drinking,

or using restroom. Wash contaminated clothing before wearing again.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Color: Green
Odor: Chemical

pH: <6

No data available **Evaporation rate:** Melting point: No data available Freezing point: No data available **Boiling point:** No data available Flash point: No data available **Explosion limits:** No data available Flammability (solid/gas): No data available Vapor pressure: No data available Vapor density: No data available Relative density: >1 (water=1) Solubility: No data available Decomposition temperature: No data available

Section 10: Stability and Reactivity

Reactivity: Corrosive to metals.

Chemical stability: Stable.

Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extreme temperatures. Contact with metal. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Metals.

Hazardous Decomposition Under normal conditions of storage and use, hazardous decomposition products should

Products: not occur.

Section 11: Toxicological Information

Routes of Exposure: Ingestion. Skin contact. Inhalation. Eye contact.

Symptoms: Ingestion: Adverse effects: stomach pains

Skin Contact: Adverse effects: irritation, redness, blisters
Inhalation: Adverse effects: cough, respiratory irritation
Eye Contact: Adverse effects: redness, watering, irritation

Acute Toxicity: Ingestion: May cause burns to mouth, throat, stomach

Skin Contact: May cause skin burns

Inhalation: May cause respiratory irritation **Eve Contact:** May cause serious eye damage.

Toxicity Data:

Phosphoric acid (CAS 7664-38-2)	LD50 oral rat		1350 mg/kg	
	LD50 dermal rabbit		2730 m/kg	
	LC50 inhalation rat		>850mg/m ³	
Hydrochloric acid (CAS7647-01-0)	LD50 dermal rat		>5010 mg/kg	
	LC50 inhalation rat	4 h	781 ppm	

Carcinogenicity: No known effects or critical hazards Reproductivity: No known effects or critical hazards

Section 12: Ecological Information

Toxicity:

			Exposure	Species
Phosphoric acid (CAS 7664-38-2)	LC50 Fish 1	3.5mg/l	96 h	Gambusia affinis
Phosphoric acid (CAS 7664-38-2)	EC50 Daphnia	4.6 mg/l	12 h	Daphnia magna
Hydrochloric acid (CAS7647-01-0)	LC50 Fish 1	282 mg/l	96 h	Gambusia affinis [static]

Persistence and degradability: Not established Bioaccumulative potential: Not established Mobility in Soil: Not established Other adverse effects: None noted

Section 13: Disposal Considerations

Disposal methods: Dispose of waste in accordance with local.

regional, and national regulations

Section 14: Transport Information

In accordance with: ICAO/IATA/DOT/TDG

DOT Classification:

DOT Shipping name: Corrosive Liquid (Phosphoric acid, Hydrochloric acid)

Class: 8 III **Packing Group:**

See shipping documents for specific transportation information **Bulk Transport:**

Marine Pollutant:

Section 15: Regulatory Information

US Federal Regulations: All components are listed or exempted

TSCA 8(b) Inventory No chemicals subject to reporting

SARA 304 Acute health hazard

SARA 311/312 Hydrochloric acid has specific toxic chemical listing Hydrochloric acid has specific toxic chemical listing **SARA 302**

SARA 313

Section 16: Other Information

Hazardous Material Information System:

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Health	3	
Flammability	0	
Physical Hazards	0	



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