



Scale Purge

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Alliance Group, Inc. 800-648-7339
N114 W18621 Clinton Drive
Germantown, WI 53022

Contact: CHEMTEL
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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
Health, Skin corrosion/irritation, 1 B
Physical, Corrosive to Metals, 1
Health, Specific target organ toxicity - Single exposure, 3
Health, Acute toxicity, 4 Oral
Environmental, Hazards to the aquatic environment - Acute, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H318 - Causes serious eye damage
H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals
H335 - May cause respiratory irritation
H302 - Harmful if swallowed
H401 - Toxic to aquatic life

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - Wear respiratory protection.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P332+313 - If skin or eye irritation occur/persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P404 - Store in a closed container.
P501 - Dispose of contents/container in accordance with local, regional, and international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry:	Eyes; Inhalation; Ingestion; Skin.
Target Organs:	Respiratory system; Eyes; Skin; Teeth.
Inhalation:	CORROSIVE: Can cause severe irritation and inflammation of the respiratory tract. May cause coughing, chest pain, shortness of breath, wheezing and pulmonary edema. Effects may be delayed. Can cause severe irritation and inflammation of the respiratory tract. May cause coughing, chest pain, shortness of breath, wheezing and pulmonary edema. Effects may be delayed.
Skin Contact:	CORROSIVE: May cause severe irritation and burns. Prolonged and repeated contact, even with dilute concentrations, can cause a high degree of tissue destruction. Large amounts can cause redness, swelling, blisters and ulcerations.
Eye Contact:	CORROSIVE: May cause severe irritation and burns. May cause permanent eye damage, blindness, corneal damage. Effects may vary depending on length of exposure

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Substance/Mixture: Mixture

**Contains corrosion inhibitor

Cas#	%	Chemical Name
7647-01-0	<90%	Hydrochloric acid, solution

4 FIRST AID MEASURES

Inhalation:	If inhaled, move victim to fresh air. Give oxygen or artificial respiration if needed. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion:	If swallowed: If fully conscious, drink a quart of water or milk. Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

5 FIRE FIGHTING MEASURES

Flammability:	No data available.
Flash Point:	No data available.
Flash Point Method:	No data available.
Burning Rate:	No data available.
Autoignition Temp:	No data available.
LEL:	No data available.
UEL:	No data available.

Fire Fighting Methods

Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

Unusual Fire or Explosion Hazards:

Thermal decomposition releases toxic and corrosive gas (hydrogen chloride, chlorine). Reacts with metal producing flammable/explosive hydrogen gas.

Extinguishing Media

Suitable: Regular dry chemical, carbon dioxide, fine water spray, regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable fire extinguisher: Do NOT use high volume water spray.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate area. Use personal protective equipment to avoid direct contact with skin, eyes, and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

Soak up with inert absorbent material and dispose of as hazardous waste. Neutralize with sodium carbonate or other non-combustible material. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight.

Storage Requirements: **Never add water to acids; always add acids to water.
CORROSIVE MATERIAL. Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Highly corrosive to most metals with evolution of hydrogen gas. Explosive/flammable concentration of hydrogen gas may accumulate inside metals containers. Elevated temperatures will increase the corrosion rate of most metals.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating mist. Keep levels below exposure limits.

Personal Protective Equipment:
Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Respiratory
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Eyes and Face
Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.
Skin
Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.

Component	OSHA PEL	ACGIH TWA/ TLV
Hydrochloric Acid	5 mg/m3	2 mg/m3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear; slight yellow /amber
Physical State: Liquid
Odor: Sharp odor
Odor Threshold: 1-5 ppm
Molecular Formula: No data available.

Particle Size: No data available.
Spec Grav./Density: 1.140 @ 25 C
Viscosity: No data available
Sat. Vap. Conc.: No data available.
Boiling Point: 110°C
Flammability: No data available.
Partition Coefficient: Not relevant
Vapor Pressure: 35 mm Hg
pH: <1.0
Evap. Rate: No data available
Molecular weight: No data available.
Decomp Temp: No data available.

Solubility: Complete
Softening Point: No data available.
Percent Volatile: None
Heat Value: No data available.
Freezing/Melting Pt.: -30°C
Flash Point: No data available.
Octanol: No data available.
Vapor Density: No data available.
VOC: No data available.
Bulk Density: No data available.
Auto-Ignition Temp: No data available.
UFL/LFL: No data available.

Lower Explosion Limits: No data available.
Upper Explosion Limits: No data available.

10 STABILITY AND REACTIVITY

Reactivity: No data available.
Chemical Stability: Product is stable under normal conditions.
Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Contact with organic material may cause fire and explosions. Contact with water may cause violent reaction with evolution of heat. To dilute: Add products slowly to lukewarm water, not water to product.
Materials to Avoid: Metals. Water. Alkalies. Strong Oxidizing Agents. Reducing agents. Carbonates. Cyanides. Sulfides. Carbides. Chlorates. Fulminates. Nitrates. Powdered metals. Organic materials. Combustible materials. Nitrogen compounds. Picrates. Bases. Halogens. Alkali metals, and many other reactive substances.
Hazardous Decomposition: Hydrogen gas. Hydrogen chloride gas. May produce hazardous gases on contact with chemicals such as cyanide, sulfite, carbide, etc.
Hazardous Polymerization: Will not occur under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: Corrosive- Causes severe eye irritation and burns. May cause: blurred vision, redness, pain, conjunctivitis, ulcerations, tissue destruction, permanent eye damage, blindness.

Skin Effects: Corrosive- Causes severe irritation and burns. Concentrated solutions may cause: severe burns, severe necrosis, permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.

Inhalation Effects: Corrosive- Cause severe irritation and burns. Vapors and mists may damage: mucous membranes, respiratory tract. Vapors or mists may cause: coughing, sore throat, shortness of breath, labored breathing, choking, bronchospasms, chemical pneumonitis, pulmonary edema, death. Effects may be delayed. Chronic exposure may cause: dental erosions, discoloration of teeth, bronchitis, and bronchial emphysema.

Ingestion Effects: Corrosive- Causes severe irritation and burns. May cause damage to the: mouth, throat, esophagus, stomach, gastrointestinal tract. May cause: pain, vomiting, diarrhea, bleeding, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection, and death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

Chronic Effects: No data available.
Mutagenicity: No data available.
Teratogenicity: No data available.
Fertility Effects: No data available.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric Acid	Rat: 700 mg/kg	Rabbit: >5010 mg/kg	Rat: 3124 mg/m ³ -1H

Acute Toxicity Estimate (ATE):
Inhalation Vapor: No data available

Carcinogenicity:

The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic- acid mists containing sulfuric acid is carcinogenic to humans (group 1).
IARC: 1 - Group 1: Carcinogenic to humans (Sulfuric acid)
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: Known to be human carcinogen (Sulfuric acid)
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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ECOLOGICAL INFORMATION

Biodegradability No data available.

Ecotoxicity

Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid):

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

Hazardous Waste Number: D002

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TRANSPORT INFORMATION

UN1789, Hydrochloric acid, 8, PGII

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(5000LBS), Hydrochloric acid, solution (7647-01-0) [n/a%] CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TSCA, TXAIR

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category:

Immediate(Acute) Health Hazard: YES

Delayed (Chronic) Health Hazard: YES

Fire Hazard: NO

Sudden Release of Pressure Hazard: NO

Reactive Hazard: YES

SARA Section 302/304/313/HAP:

Component CERCLA RQ (LBS) SARA RQ(LBS) SARA TPQ(LBS) SARA SEC 313 US EPA HAP

STATE REGULATIONS

California- The following components are listed under Prop 65:

Arsenic, Cadmium, Chromium, Lead, Nickel, Mercury

Wisconsin- The following components are listed as a Wisconsin HAP: None

16**OTHER INFORMATION**

HMIS III: Health = 3(Chronic), Fire = 0, Physical Hazard = 2

HMIS	
HEALTH <input checked="" type="checkbox"/>	3
FLAMMABILITY	0
PHYSICAL HAZARD	2
PERSONAL PROTECTION <input type="checkbox"/>	

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Prepared By: T Hartmann

Reason for Revision: Update to Section 9

This information is given in good faith and based on our current knowledge of the product.

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