

SAFETY DATA SHEET

1. Product and company identification

Product Name Delimer
UN/ID NO. UN1789 Hydrochloric Acid

Recommended use of the chemical and restrictions on use:

Recommended Use Hard Water Scale Remover for industrial and commercial use

Supplier: Immaculate Solutions Group
13525 Midland Rd.
Poway, CA 92064
888-780-8420

Manufacturer: Allied International

Date: 02-18-2025

Responsible Name K.B.

In case of emergency For chemical Emergencies
Call INFOTRAC • 24 Hour Number
1-800-535-5053 or + 1 352-323-3500

2. Hazards identification

Appearance: Yellow

Physical State: Liquid

Odor: Slight acidic odor

Classification

Acute Toxicity – Oral	Category 4
Skin corrosion/irritation	Category 1 A
Serious eye damage/eye irritation	Category 1

Signal Word: Danger



Hazard Statement:

May be fatal if swallowed. Harmful if swallowed
Causes severe skin burns and eye damage. Causes serious eye damage.
Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
May cause respiratory irritation
Harmful to aquatic life with long lasting effects.

Precautionary Statements – Preventions:

Keep away from children. Read label before use.
Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response:

Immediately call a poison control center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.
Continue rinsing immediately call a poison control 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. Call physician or poison control center immediately. Chemical burns must be treated by a physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison control center or doctor/physician

IF SWALLOWED: Immediately call a poison control 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:

Disposed of contents/container in accordance with local/state/regional/national and international regulations.

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Hydrochloric Acid	7647-01-0	10-15
Sulfamic Acid	5329-14-6	5-10
Other components below reportable levels		

4. First aid measures

Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediately call a poison control center or doctor/physician
Skin contact:	If on Skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention.
Inhalation:	If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison controlcenter or doctor/physician.
Ingestion:	If Swallowed: Immediately call a poison control center or doctor/physician. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Symptoms	Most important symptoms and effects: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns. Flush with water immediately. While flushing remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable Extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)
Non suitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards Arising from the Chemical	During fire, gases hazardous to health may be formed.
Special methods	Use standard firefighting procedures and consider the hazard of other involved materials
General fire hazards	No unusual fire or explosion hazards note
Fire fighting equipment /instructions	Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear must be worn in case of fire.

6. Accidental release measures

Personal precautions:	Keep unnecessary personnel away. Keep people away from Use personal protective equipment as required during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of SDS.
Environmental precautions:	Never return spills to original containers for re-use. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal considerations, for additional information
Methods for cleanup and containment of material:	
Methods of containment	Prevent further leakage or spillage if safe to do so
Large spill:	Stop the flow of material, if this is without risk. Kike the spilled material, where this is possible. Cover the plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small spill:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Handling:	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not taste or swallow. Use only outdoors or in a well-ventilated area. Avoid prolonged exposure. Do not breathe dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices.
Storage	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
Incompatible Materials	Amines. See section 10 of the SDS

8. Exposure controls/personal protection

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

Components	Type	Value
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	2 ppm

US. NIOSH: Pocket guide to Chemical Hazards

Components	Type	Value
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m ³

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate Engineering Controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual-protection measures, such as personal protective equipment:

Eye/Face Protection	Wear safety glasses with side shield (or goggles) and a face shield
Skin and Body Protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. Approved/certified dust respirator or equivalent.
General Hygiene considerations	Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

9. Physical and chemical properties

Physical state	Liquid
Boiling Point	>100 C
Color	Yellow
pH	1.0
Specific Gravity (H2O=1)	1.09
Solubility in Water	Soluble
% Volatiles by volume	60-70% (water)
Viscosity	4.0 cps
Evaporation rate (Butyl Acetate =1):	<1

10. Stability reactivity

Stability	Stable under recommended storage conditions
Hazardous polymerization	Hazardous polymerization does not occur
Conditions to avoid	Contact with incompatible materials. Excessive heat. Avoid direct sunlight.
Materials to avoid	Amines, Hydrogen chloride gas
Hazardous decomposition products	None known based on information sheet.

11. Toxicological information**Information on likely routes of exposure**

Eye Contact	Causes serious eye damage
Skin Contact	Causes severe skin burns
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful
Ingestion	Causes digestive tract burns. Harmful if swallowed
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

Information on toxicological effects

Acute toxicity	Harmful if swallowed
Chronic effects	Prolonged inhalation may be harmful
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.

Chronic Toxicity: Unknown

Carcinogenicity: None

12. Ecological information**Ecotoxicity**

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional handling information and protection of employees.

14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	PG*	Personal Protection
DOT Classification	UN1789	Hydrochloric Acid	8	II	D

*PG: Packing group

15. Regulatory information

U.S. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Right to Know Act regulations (SB 258)

Chemical Name	CAS No,	Function	List(s)
Water	7732-18-5	Diluent	Not Applicable
Hydrochloric Acid	7647-01-0	Cleaning Agent	
Sulfamic Acid	5329-14-6	Cleaning Agent	
Citric Acid	77-92-9	Cleaning Agent	
Ethylene Glycol	107-21-1	Stablizer	
Colorant	Not available	Colorant	Not Applicable

16. Other information

<u>HMIS</u>	Health Hazards	Flammability	Reactivity	Personal Protection
	3	1	1	D

Disclaimer

The information provided in the 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 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