

Deliming Solution

SECTION 1. IDENTIFICATION

Product Identifier	Deliming Solution
Other Means of Identification	62595, 62586
Recommended Use	Scale and Deliming Cleaner.
Restrictions on Use	None known.
Manufacturer	Sluyter Company Ltd., 375 Steelcase Road East, Markham, ON, L3R 1G3, Canada, Technical Department, (905) 475-6011, www.sluyter.com
Emergency Phone No.	CANUTEC, 1-888-226-8832 , or *666 on a cellular phone.
SDS No.	0127

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Corrosive to metals - Category 1; Acute toxicity (Oral) - Category 2; Acute toxicity (Dermal) - Category 2; Acute toxicity (Inhalation) - Category 2; Skin corrosion - Category 1B; Eye irritation - Category 2A; Respiratory sensitization - Category 1A; Skin sensitization - Category 1A

Label Elements



Signal Word:

Danger

Hazard Statement(s):

May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Prevention:

Keep only in original container.

Do not breathe dusts or mists.

Wear eye protection/face protection.

Wash hands thoroughly after handling.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTRE/doctor/

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage:
Store locked up.
Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Harmful to animal life. Harmful to plants.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Hydrochloric acid	7647-01-0	3 - 30		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Get medical advice or attention if you feel unwell or are concerned. If exposed or concerned, call a Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of water. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Immediately call a Poison Centre or doctor. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention. Immediately call a Poison Centre or doctor. Specific treatment is required.

Ingestion

Rinse mouth with water. Do not induce vomiting. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the Poison Centre or doctor. Get medical advice or attention if you feel unwell or are concerned. Immediately call a Poison Centre or doctor. Specific treatment is required.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at low concentrations can cause severe irritation of the nose and throat. Can cause lung injury. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest. If on skin: small amounts causes very mild irritation. Repeated or prolonged exposure can irritate or burn the skin. If swallowed: small amounts if in eyes: small amounts a prolonged exposure may cause blurred or foggy vision, which can contribute to accidents. This effect normally clears up within a day. Direct contact with the liquefied gas can freeze the eye. Permanent eye damage or blindness can result.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin.

Medical Conditions Aggravated by Exposure

Skin conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

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Suitable Extinguishing Media

Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn. Not sensitive to static discharge.

Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Concentrated product: it is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Flush spill area.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling diluted product: obtain special instructions before use. Do not breathe in this product. Prevent all skin contact. Avoid repeated or prolonged skin contact. Do not get in eyes, on skin or on clothing. Do not swallow. Only use where there is adequate ventilation. If product is transferred to another container, ensure new container is suitable for the product. Prevent accidental contact with incompatible chemicals. Do NOT eat, drink or store food in work areas. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Conditions for Safe Storage

Concentrated product: product (diluted as directed): store in an area that is: secure and separate from work areas. Store in the original, labelled, shipping container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Appropriate Engineering Controls

Product (diluted as directed): general ventilation is usually adequate. Concentrated product: provide safety shower in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Not required, if used as directed. Wear chemical protective clothing e.g. gloves, aprons, boots.

Natural rubber.

Respiratory Protection

Concentrated product: wear a NIOSH approved particulate respirator equipped with an N95, R95, or P95 filter.

Product (diluted as directed): not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Tan. Particle Size: Not applicable
Odour	Pungent
Odour Threshold	Not available
pH	< 3.0
Melting Point/Freezing Point	Not available (melting); 0 - 2 °C (32 - 36 °F) (freezing)
Initial Boiling Point/Range	99 °C (210 °F)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	115 mm Hg at 77 °F (25 °C)
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.00 - 1.20
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Bulk Density	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

High temperatures. Freezing.

Incompatible Materials

Not applicable.

Hazardous Decomposition Products

Not applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

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Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Hydrochloric acid	3124 ppm (rat)	238-277 mg/kg (rat)	> 5010 mg/kg

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

May cause very mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful May be harmful.

Skin Absorption

No information was located.

Ingestion

Irritation of the mouth, throat and stomach.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

No information was located.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Hydrochloric acid	282 mg/L (Lepomis macrochirus)			

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(bluegill); 96-hour

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

Studies are not available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of or recycle empty containers through an approved waste management facility.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1789	Hydrochloric Acid	Limited Quantity	

Environmental Hazards Potential Marine Pollutant (Hydrochloric acid)

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other Information Shipped as LIMITED QUANTITY. If the shipment exceeds 500 kg in weight, this is shipped as LIMITED QUANTITY HYDROCHLORIC ACID (SOLUTION) – CLASS 8 PG II

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 3 Flammability - 0 Instability - 2

SDS Prepared By Sluyter Company Ltd

Phone No. 905-475-6011

Date of Preparation March 16, 2018

Revision Indicators Date of Preparation.

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SDS does not apply to use with any other product or in any other process.

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