

## Deliming Solution

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Deliming Solution
<b>Other Means of Identification</b>	62595, 62586
<b>Recommended Use</b>	Scale and Deliming Cleaner.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer</b>	Sluyter Company Ltd., 375 Steelcase Road East, Markham, ON, L3R 1G3, Canada, Technical Department, (905) 475-6011, www.sluyter.com
<b>Emergency Phone No.</b>	CANUTEC, (613) 996-6666, Call Collect
<b>SDS No.</b>	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



#### Danger

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Prevention:

- P234 Keep only in original container.
- P260 Do not breathe dusts or mists.
- P280 Wear eye protection/face protection.
- P264 Wash hands thoroughly after handling.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor/
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.

#### Storage:

- P405 Store locked up.

Disposal:

P501 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**

**Suitable Extinguishing Media**

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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**

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## Basic Physical and Chemical Properties

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

### Acute Toxicity

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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 (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 )	8	II

**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**

**SDS Prepared By** Sluyter Company Ltd

**Date of Preparation** March 16, 2018

**Revision Indicators** Date of Preparation.

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