

MATERIAL SAFETY DATA SHEET
DELIMING SOLUTION

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SLUYTER COMPANY LTD.

375 Steelcase Road East
Markham, Ontario L3R 1G3 Canada
Tel (905) 475-6011 Fax (905) 475-3119

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER-----SLUYTER COMPANY LTD.
375 Steelcase Road East
Markham, Ontario L3R 1G3
Canada
Tel (905) 475-6011
PRODUCT NAME-----DELIMING SOLUTION.
PRODUCT USES-----Scale and Deliming Cleaner.
CHEMICAL FAMILY-----Acid Based.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS / %	CAS / TLV	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
HYDROCHLORIC ACID			
1- - 30	7647-01-0	900 mg/kg	3124 ppm 1 Hour
	5 mg/m3	Oral (Rat)	Inhalation (Rat)

SECTION 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:-----
SKIN CONTACT-----Will cause severe burns to the skin.
SKIN ABSORPTION-----May be harmful if absorbed through the skin.
INHALATION-----See "EFFECTS OF CHRONIC EXPOSURE", below.
INHALATION CHRONIC-----Breathing of high vapour concentrations could cause dizziness, headache or even unconsciousness. May be anesthetic which could result in other central nervous system effects.
INGESTION-----Can cause gastro-intestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into respiratory system could cause severe health effects (e.g. Bronchopneumonia or Pulmonary Edema).
EYE CONTACT-----Contains materials that are severely irritating to the eyes.
EFFECTS OF ACUTE EXPOSURE-----Refer to "ROUTE ENTRY" section.
EFFECTS OF CHRONIC EXPOSURE-----Corrosive: Avoid skin and eye contact. May cause respiratory damage. Repeated contact with the skin may cause dermatitis.

SECTION 04: FIRST AID MEASURES

EYE CONTACT-----Check for and remove any contact lenses. Immediately flush with water for a minimum of 20 minutes and get medical attention.
SKIN CONTACT-----Remove contaminated clothing. Wash affected area with water and soap. Seek medical attention if irritation occurs or persists.
INHALATION-----Remove patient to fresh air. If not breathing, trained personnel should administer artificial respiration. Get medical attention.

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EMERGENCY - CALL CANUTEC (613) 996-6666 (Collect)

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INGESTION-----Get immediate medical attention.
ADDITIONAL INFORMATION-----Contact your local poison control centre.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY-----Non-flammable.
UNDER WHAT CONDITIONS-----Not Applicable.
SPECIAL PROCEDURES-----Self contained breathing apparatus and protective clothing is required for fire fighting personnel.
FLASH POINT (METHOD)-----None.
AUTO IGNITION TEMPERATURE-----Not applicable.
UPPER FLAMMABLE LIMIT (% VOL)-----Not applicable.
LOWER FLAMMABLE LIMIT (% VOL)-----Not applicable.
EXTINGUISHING MEDIA-----Alcohol foam, CO2 or dry chemical.
HAZARDOUS COMBUSTION PRODUCTS-----Hydrogen when in contact with metal.
SENSITIVITY TO MECHANICAL-----Yes.
IMPACT
SENSITIVITY TO STATIC-----May be sensitive. Not available.
DISCHARGE

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL-----CAUTION: Never add water directly to concentrated acid as a violent reaction will occur. Do not breathe the fumes. For large quantities contact the Environmental Authorities. Small spills may be wiped or washed down with water. Large spills should be collected for disposal. Absorb residual material with sand or other absorbent material. Prevent run-off into drains, sewers and other waterways. Wear protective gear (See SECTION 8).Ventilate.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES-----Avoid skin and eye contact. Avoid breathing vapours. Use adequate ventilation. Wear neoprene gloves and wear eye protection.
STORAGE NEEDS-----Store in a cool area, away from all sources of heat and ignition. Store in a dry, well ventilated area. Store in a cool area, away from incompatible material. Keep container closed and out of reach from children and pets when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:-----
EYE/TYPE-----Safety glasses.
RESPIRATORY/TYPE-----If used indoors on a continuous basis or if the TLV is exceeded, the use of a cartridge type respirator (NIOSH/MSHA approved) is recommended.
GLOVES/ TYPE-----Wear impervious gloves (Neoprene or Rubber).
CLOTHING/TYPE-----Wear a neoprene apron if handling large quantities.

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FOOTWEAR/TYPE-----Safety boots as specified in workplace regulations.
OTHER/TYPE-----Eye bath and safety shower.
VENTILATION REQUIREMENTS-----Natural or mechanical ventilation to keep the vapour concentrations below the TLV. Do not use in a confined space.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE-----Liquid.
ODOUR-----Pungent acid like odour.
SPECIFIC GRAVITY-----1.00 - 1.10.
BOILING POINT (deg C)-----100°C.
pH-----Not applicable.
SOLUBILITY IN WATER (% W/W)-----Soluble.
COEFFICIENT OF WATER\OIL-----Not available.
DISTRIBUTION
VOLATILES (%)-----Not available.
FREEZING POINT-----0°C.
MOLECULAR WEIGHT-----Not applicable.

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY-----Aluminum and similar alloys. Metals. To dilute add acid to water and not water to acid, thus preventing a violent reaction.
REACTIVITY CONDITIONS-----In presence of alkalis and peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL-----See "HAZARDOUS INGREDIENTS" in SECTION 2.
IRRITANCY OF MATERIAL-----Eye irritant. High irritancy. Severe skin irritant.
SENSITIZING CAPABILITY OF MATERIAL-----Not available.
CARCINOGENICITY OF MATERIAL-----No information is available and no adverse carcinogenic effects are anticipated.
TERATOGENICITY-----No information is available and no adverse teratogenicity effects are anticipated.
MUTAGENICITY-----No information is available and no adverse mutagenicity effects are anticipated.
REPRODUCTIVE EFFECTS-----No information is available and no adverse reproductive effects are anticipated.
SYNERGISTIC MATERIALS-----Not available.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL-----Not available. Can be dangerous if allowed to enter drinking water intakes. Product has an unaesthetic appearance and can be a nuisance. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds and rivers.
BIODEGRADABILITY-----Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL-----Spilled material and water rinses are classified as chemical waste. To be disposed of in accordance with current Local, Provincial and Federal regulations. Consult an expert in hazardous waste for proper disposal.

SECTION 14: TRANSPORT INFORMATION

T.D.G. CLASSIFICATION-----
(1)-----LIMITED QUANTITY - if shipment exceeds 500 kg in weight, shipped as LIMITED QUANTITY HYDROCHLORIC ACID (SOLUTION) CLASS 8(9.2).

SECTION 15: REGULATORY INFORMATION

CPR COMPLIANCE-----This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS CLASSIFICATION-----Class E.

SECTION 16: OTHER INFORMATION

IMPORTANT:-----The information on this Material Safety Data Sheet is furnished without warranty, expressed or implied. All the information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations for the accuracy or sufficiency.