



MATERIAL SAFETY DATA SHEET

DELIMER

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Delimer
GENERAL/GENERIC NAME:
PRODUCT USE: Descaler
EFFECTIVE DATE: August 21, 2014
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.
9 City View Drive, Etobicoke, Ontario M9W 5A5
24 HOUR EMERGENCY NO. 613-996-6666

SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	%W/W	CAS.NO	TLV	LD50 / LC50
Nitric Acid	5 – 10	7697-37-2	PEL(OSHA) 2 ppm TLV(ACGIH) 2 ppm	LDLO 430 mg/kg (oral/human) LC50 49 ppm/4hr(inhalation/rat) LD50 244 ppm(NO ₂)/30 min (inhalation/rat)
Phosphoric Acid	20 – 60	7664-38-2	PEL(OSHA) 1 mg/m ³ TLV(OSHA) 1 mg/m ³	LD50 1530 mg/kg (oral/rat) LD50 2740 mg/kg (skin/rabbit)

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Causes irritation.

Eye Contact: Causes burns.

Inhalation: Mist causes irritation of the respiratory tract.

Ingestion: Causes burns to digestive tract.

Effects of Acute Exposure: (see section 11 for Toxicological information).

SECTION 4 – FIRST AID

Eyes: Flush with running water for at least 30 minutes while holding eyelids open. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing thoroughly before re-use. Seek medical attention if skin is burned or symptoms continue.

Inhalation: Remove victim to fresh air. Aid in breathing if necessary. If breathing stops, administer artificial respiration. Seek medical attention. Effects may be delayed for a few hours and aggravated by physical exertion.

Ingestion: Give plenty of water or milk to drink to dilute stomach contents. **Do not induce vomiting.** Seek immediate medical attention.

Note to Physician: Risk of permanent corneal injury and possible blindness if splashed into eyes.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: ND

FLAMMABLE LIMITS: ND

AUTO-IGNITION TEMP: ND

EXTINGUISHING MEDIA:

SPECIAL FIREFIGHTING PROCEDURES: Wear self contained breathing apparatus and protective clothing.

EXPLOSION DATA: Not expected to be sensitive.

HAZARDOUS COMBUSTION PRODUCTS On contact with certain metals, flammable hydrogen gas will evolve.
Oxides of nitrogen and phosphorus.:

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak/Spill: Wear protective equipment. Neutralize carefully with soda ash or dilute caustic. Provide adequate ventilation. Mop up or soak up with non-oxidizable material. Do not use sawdust, cloth or other organic materials.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Avoid all skin contact. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid contact with eyes, skin or clothing. . Keep container closed when not in use.

Storage Procedures: Keep from freezing. Keep containers closed when not in use.

SECTION 8 – EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT TO BE USED:

RESPIRATORY PROTECTION: NIOSH approved if ventilation is not adequate.
VENTILATION: Local, mechanical exhaust ventilation to maintain vapour concentration below exposure limits..
PROTECTIVE GLOVES: Rubber or Latex
EYE PROTECTION: Chemical goggles
OTHER PROTECTIVE MEASURES: Long sleeves

SECTION 9 – PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE AND ODOUR: Clear colorless liquid
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.23
VAPOUR PRESSURE: ND
VAPOUR DENSITY: ND
PH: < 1
EVAPORATION RATE: ND
INITIAL BOILING POINT: ND
WATER SOLUBILITY: Complete
FREEZING POINT: ND

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Alkalis, certain metals, chlorinated materials.
HAZARDOUS DECOMPOSITION PRODUCTS: ND
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Contact with certain metals will yield hydrogen gas. Contact with alkalis will generate heat. Contact with chlorinated material will generate toxic gas.

SECTION 11 – TOXICOLIGICAL INFORMATION

THRESHOLD LIMIT VALUE: ND
EFFECTS OF ACCUTE EXPOSURE:
SKIN CONTACT: Corrosive. May cause severe burns which are slow in healing. May cause delayed reaction burns, some hours after exposure.
EYE CONTACT: Extremely corrosive. May cause permanent damage if not treated properly.
INHALATION: May cause irritation of the respiratory tract.
INGESTION: Can cause mouth, throat and stomach burns. Can effect kidney function and be fatal if swallowed.
EFFECT OF CHRONIC EXPOSURE: Not known.
IRRITANCY OF PRODUCT: Moderate
CARCINOGENICITY: ND
SENSITIZATION TO MATERIAL: ND
REPRODUCTION TOXICITY: ND
TERATOGENICITY: ND
MUTAGENICITY: ND

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SECTION 12 – ECOLOGICAL CONSIDERATION

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: In accordance with federal, provincial or local government requirements.

SECTION 14 – TRANSPORT INFORMATION

TDG Classification: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Nitric Acid)
Class 8 UN 3264 PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: D2B, E

SECTION 16 – OTHER INFORMATION

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