

# MATERIAL SAFETY DATA SHEET

## DELIMER



### SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Delimer  
GENERAL/GENERIC NAME:  
PRODUCT USE: Descaler  
EFFECTIVE DATE: October 6, 2011  
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.  
24 Ronson Drive, Unit 16  
Etobicoke, Ontario M9W 1B4  
613-996-6666  
24 HOUR EMERGENCY NO.

### SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	%W/W	CAS.NO	TLV	LD50 / LC50
Nitric Acid	3 – 7	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 <sub>2</sub> )/30 min (inhalation/rat)
Phosphoric Acid	20 – 60	7664-38-2	PEL(OSHA) 1 mg/m <sup>3</sup> TLV(OSHA) 1 mg/m <sup>3</sup>	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 transient irritation.

**Inhalation:** Mist may cause irritation of the respiratory tract.

**Ingestion:** May cause irritation 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.:

### 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-oxidizing material. Do not use sawdust, cloth or other organic materials.

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### 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 – TOXICOLOGICAL 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**

No permanent effects on ecosystems.

### **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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