

# Material Safety Data Sheet

## SIERRA INDUSTRIAL DESCALER

**Issue Date** December 2009  
**Classified as hazardous according to criteria of NOHSC**

### COMPANY DETAILS

Company Name SIERRA (AUST) PTY LTD ABN 51 101 022 066  
Address 17 Delta Street, Geebung  
QLD 4034  
Emergency Tel. (07) 3216 5099  
Tel/Fax (07) 3216 5199  
Other Information The information herein is, to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions of application are beyond our control, Clampline does not accept liability for any damages resulting from the use of, or reliance on, this information, in inappropriate contexts.

### IDENTIFICATION

Product Name Descaler for Industrial Applications  
  
Other Names Not Available  
UN Number 1760  
DG Class 8  
Packing Group III  
Hazchem Code 2P  
Poisons Schedule S6  
Product Use removing scale build up in water use applications

### Physical Data

Appearance Clear colourless mobile liquid, neutral odour.  
Boiling Point 100°C  
Specific Gravity 1.165 @ 25°C  
Flash Point This product will not flash and does not support combustion.  
Solubility in Water Complete

### Other Properties

Volatile Component 50% w/w  
Evaporation Rate As for Water  
pH Value 0.8  
Stability (Thermal, light etc): Considered stable.  
Conditions to avoid: None known.  
Haz. Polymerization Will not occur.  
Materials to Avoid Strong alkalies, strong oxidising agents.

### Ingredients

Ingredients	Name	CAS	Proportion
	Proprietary - secret		20-50 %
	Water	7732-18-5	(Balance)
	Ethoxilated Alcohol	trace	

**Other Information** Ingredients which, when classified according to NOHSC:1008, are carcinogenic, mutagenic, teratogenic, skin or respiratory sensitisers, very corrosive, corrosive, toxic or very toxic, are harmful substances which can cause irreversible effects after acute exposure, or harmful substances which can cause serious damage to health after repeated or prolonged exposure:

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Eye** Severe eye irritant. May cause corneal damage.

**Chronic** No known chronic effects.

**Other Information** INHALATION:

Exposure standard for Phosphoric acid: TLV-TWA 1 mg/m<sup>3</sup>. TLV-STEL 3 mg/m<sup>3</sup>.

Source: NOHSC, ACGIH. Spray mists are corrosive and irritating to the nose, throat and respiratory tract.

### First Aid

**Swallowed** Do NOT induce vomiting. Give water to drink. Seek immediate medical attention.

**Eye** Hold the eyes open and flush with water for at least 15 minutes. Seek immediate medical attention.

**Skin** Remove contaminated clothing and launder before re-use. Wash affected skin thoroughly with soap and water. If swelling, blistering, redness or irritation occurs, seek medical attention.

**Inhaled** Rescuers should wear respiratory protection. Remove the victim from the source of exposure. If the victim is not breathing, apply artificial resuscitation. For all but the most minor symptoms, seek medical attention.

**First Aid Facilities** A safety shower and an eye irrigation facility should be provided. This Material Safety Data Sheet should be provided to the attending medical doctor.

### Advice to Doctor

**Advice to Doctor** Treat symptomatically.

## Other Health Hazard Information

### PRECAUTIONS FOR USE

Exposure Limits	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Sierra Descaler Water	3	-	1	-	

**Eng. Controls** Sierra Descaler has a low vapour pressure at ambient temperature. However, if mists are produced during use, or if the product becomes vapourised by contact with a very hot surface, then the exposure standard may be surpassed. Ensure that the ventilation is adequate to maintain air concentrations below the exposure standards. If necessary, provide corrosion resistant local exhaust ventilation, exhausting to the outside of the building. Do not enter confined spaces where the vapour may have accumulated.

## Personal Protection

**Protective Equip.** Wear PVC gloves and chemical goggles and / or a face shield. An acid resistant respirator to AS 1716 is recommended if spray mists are produced during use. It is recommended that a shirt with long sleeves and long trousers be worn. Always wash skin and clothing after using this product.

## Flammability

**Fire Hazards** This product is not flammable under the conditions of use and does not support combustion. However, this product will liberate Hydrogen gas on contact with metals, thus creating a fire and explosion hazard.

## SAFE HANDLING INFORMATION

### Storage and Transport

**Storage and Transport** This product is classified as UN 1760. Dangerous Goods Class 8, Packaging Group III. Transport according to the ACTDG. Store in plastic containers in a banded area away from heat, alkalies, flammable goods, oxidising agents, foodstuffs and empty foodstuff receptacles.

**EPG Number** 8A1

**IERG Number** 37

**Packaging Method** 5.9.8RT8

## Spills and Disposal

**Spills & Disposal** Spillages are slippery. Personnel involved in cleaning up any spills are to wear rubber or PVC gloves and chemical goggles. Cordon off the spillage area. Isolate the source of the spillage or leak. For large amounts, contain the spillage using a suitable non-flammable absorbent material such as sand or diatomaceous earth, and then transfer to sealed plastic containers for disposal. Dispose of large amounts in a suitable chemical dump (check the local statutory requirements). Neutralise any remaining product using a solution of mild alkali such as soda ash, then rinse the area clean with water. For minor spills, rinsing the area clean with water would be adequate.

## Fire/Explosion Hazard

**Fire/Explos. Hazard** This product will liberate Hydrogen gas on contact with metals, thus creating a fire and explosion hazard. Potential sources of ignition should be excluded from the immediate area.

**Hazardous Decomposition or Byproducts** During combustion, this product may produce phorous oxide and carbon monoxide as well as other unidentifiable organic compounds.

**Fire Fighting Procedures** Special Protective Equipment: If this product is involved in a fire, firefighters should wear PVC gloves, enclosed footwear and self contained breathing apparatus.

**Extinguishing Media** Use the extinguisher applicable to the source of the fire.

**Hazchem Code** 2P

**Other Information** This product is not flammable under the conditions of use and does not support combustion. However, this product will liberate Hydrogen gas on contact with metals, thus creating a fire and explosion hazard.  
Flash Point: Not relevant. Aqueous solution.  
Flammability Limits: Not relevant. Aqueous solution.  
Hazchem: 2P

## OTHER INFORMATION

### Toxicology

#### SKIN CONTACT:

Likely to cause chemical burns. Moderate skin irritant. Repeated or prolonged skin contact may lead to dermatitis. Dermal LD50 (rabbit) 2740 mg/kg .

#### INGESTION:

Likely to cause chemical burns to the digestive tract. Moderate irritant. Oral LD50 (rat) 1530 mg/kg

**Other Information** High concentrations of this product in receiving waters will injure aquatic life due to the effect of low pH. Low concentrations of this product in receiving waters may act as a plant nutrient or precipitate heavy metals.

## CONTACT POINT

### Contact

Glyn McDonald  
Sierra (Aust) Pty Ltd    Phone 07 3216 5099

End of MSDS