

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product Name: HD-HDS DESCALER

Product Use: Scale remover

WHMIS Class: Class E - Corrosive Material

TDG Classification: PHOSPHORIC ACID SOLUTION; Class 8; UN1805; PG III

Manufacturer/Supplier: Kemsol Products Ltd.

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Regina, SK S4P 3C4

Telephone: (306) 569-0636

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Phosphoric acid	7664-38-2	3-7	1 mg/m ³ TWA	Not available	1530 mg/kg oral, rat
Ethylene glycol monobutyl ether	111-76-2	0.1-1	25 ppm TWA	500 ppm, rat	220 mg/kg dermal, rabbit

SECTION III - PHYSICAL DATA

Boiling Point (°C): 98.5

Vapour Density (Air = 1): Similar

Solubility in Water: Soluble

Physical State: Liquid

Appearance; Odour: Colourless; characteristic

Specific Gravity (H₂O = 1): 1.035

% Volatile (Wt %): 95

Evaporation Rate (Water = 1): Similar

pH (100%): 1.82

Viscosity: Water thin

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Not applicable

Flash Point (°C, TCC): None

LEL: Not applicable

UEL: Not applicable

Hazardous Combustion Products: Not applicable.

Autoignition Temperature (°C): Not applicable

Means of Extinction: Treat for surrounding material.

Special Fire Hazards: Non known at this time.

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Not applicable.

Incompatible Materials: Strong oxidizing agents, strong caustics.

Hazardous Decomposition Products: Not applicable.

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin contact, Inhalation, Ingestion.

EFFECTS OF ACUTE EXPOSURE:

Eye: Causes severe irritation, reddening and swelling of tissues around the eyes.

Skin: Contact can cause moderate to high irritation.

Inhalation: Can cause nose, throat and respiratory tract irritation, coughing and headache.

Ingestion: May cause vomiting, headache and medical problems.

EFFECTS OF CHRONIC EXPOSURE:

Skin: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Irritancy: Hazardous by WHMIS criteria.

Respiratory Tract Sensitization: No data available.

Carcinogenicity: Non-hazardous by WHMIS criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: No data available.

Synergistic Materials: Not available.

SECTION VII- PREVENTATIVE MEASURES

Gloves: Viton, PVC, neoprene gloves. Confirm with a reputable supplier first.

Eye Protection: Chemical splash goggles.

Respiratory Protection: Not normally required if good ventilation is maintained. Avoid breathing mists or vapours.

Other Protective Equipment: As required by employer code.

Engineering Controls: General ventilation.

Leak and Spill Procedure: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

Waste Disposal: Review federal, provincial, and local government requirements prior to disposal.

Storage and Handling Requirements: Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION VIII - FIRST AID

Eye: Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin: Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

Inhalation: Move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water then drink one of glass of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

SECTION IX - PREPARATION INFORMATION

Date: 06/01/09
Telephone: (306) 569-0636

MSDS Prepared by: Kemsol Products Ltd.

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-905-572-4400) or CSST in Montreal, Quebec (514-873-3990).