

Section I. Product Identification and Uses

		HMIS (HFRP)	
		Health Hazard	2
		Fire Hazard	0
		Reactivity	0
		Personal Protection	r
Common / Trade name	LIME DESCALER EXTRA	TDG	Class 8
WHMIS	E	PIN	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Nitric acid)
Code	0344	PG	II
Material uses	Industrial applications: Lime descaler		

Section II. Hazardous Ingredients

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
Phosphoric Acid	7664-38-2	15 - 40	Not available.	ORAL (LD50): Acute: 1530 mg/kg [Rat]. DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].
Nitric acid (red fuming)	7697-37-2	10 - 30	TWA: 2 ppm	Not available.

Section III. First Aid Measures

Eye contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin contact	Wash the skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water. Seek immediate medical attention.

Section IV. Physical Data

Physical state and appearance	Liquid. (Clear.)	Colour	Colorless.
pH (1% soln/water)	1.3 to 1.9 [Acidic.]	Odour	Odorless.
pH (concentrate)	< 1	Volatility	Not available.
Boiling point	100°C (212°F)	Vapour density	The highest known value is 1 (Air = 1) (Water). Weighted average: 1 (Air = 1)
Specific gravity	1.2 to 1.22 (Water = 1)	Vapour pressure	Weighted average: 2.62 kPa (at 20°C)
Solubility	Easily soluble in cold water, hot water, methanol. Insoluble in diethyl ether, n-octanol.		

Section V. Fire and Explosion Data

The product is	Combustible.
Auto-ignition temperature	Not available.
Flash points	Not available.
Degradation products	carbon oxides (CO, CO ^{L2^} n) phosphates nitrogen oxides (NO, NO ^{L2^} n...)
Extinguishing media	SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Section VI. Reactivity data

Stability	The product is stable.
Decomp. products	See fire degradation products.
Reactivity	Highly reactive with alkalis. Slightly reactive to reactive with oxidizing agents, organic materials, metals, acids.

Section VII. Toxicological properties

Route of entry	Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity for animals	See section II
Acute effects	Dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation: liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Severe over exposure by ingestion or inhalation may be harmful.
Chronic effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure may cause chronic eye, respiratory tract and skin irritation.

Section VIII. Preventive measure

- Waste disposal** Dispose of material according to regional, provincial and federal regulations. Consult your local or regional authorities.
 - Storage** Keep away from heat, metals and oxidizing materials. Strong acids that are not strong oxidants should be stored in a separate safety storage cabinet or room. Keep container tightly closed in a cool, well-ventilated place.
 - Precautions** Keep locked up. Keep container dry. Keep away from heat, from sources of ignition. DO NOT ingest, breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.
 - Spill and leak** Absorb with an inert DRY material and place in an appropriate waste disposal container. Dispose of in accordance with federal, provincial, or local regulations.
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Section IX. Personal protective equipment

- Gloves** Gloves (impervious)
 - Respiratory** In case of insufficient ventilation, wear suitable respiratory equipment.
 - Eyes** Splash goggles.
 - Other** Full suit, apron, face shield, respiratory mask, boots: are recommended under exceptional circumstances such as fire, spill, or for prolonged contact with bulk quantities.
 - Eng. controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Section X. Preparation and other Information

Validated by the Regulatory Affairs Department on 25 July 2008

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EMERGENCY: CANUTEC 613-996-6666

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Annex A. Legend

- HMIS** Hazardous Materials Identification System
 - WHMIS** WHMIS Workplace Hazardous Materials Information System
 - TDG** Transport Dangerous Goods
 - PIN** Product Identification Number
 - PG** Packaging Group
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