

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME:	DESCALER/DELIMER	Emergency TEL: CANUTEC
PRODUCT USE:	Acid Cleaner	(613) 996-6666
MANUFACTURERS NAME	NORA SYSTEMS INC.	
ADDRESS:	7807 Argyll Road, Edmonton, Alberta T6C 4A9	
SUPPLIER:	NORA SYSTEMS INC.	
WHMIS CLASSIFICATION:	E-Corrosive	
TDG CLASSIFICATION:	Phosphoric Acid Solution. Class 8 (9.2) PIN 1805 PG III	

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Phosphoric acid	30-60	7664-38-2	LD50 (Oral, Rat) 1530 mg/kg

SECTION III PHYSICAL DATA

PHYSICAL STATE	liquid	VAPOUR PRESSURE:(mmHg)	n.av.
COLOUR:	Clear, Colorless	VAPOUR DENSITY:(AIR=1)	3.4
ODOUR:	Odourless	EVAPORATION RATE:	n.av.
BOILING POINT:	n.av.	SPECIFIC GRAVITY:	1.20
FREEZING POINT:	n.av.	pH:	<1
SOLUBILITY:	100% in water	ODOUR THRESHHOLD:	n.av.
		COEFFICIENT OF WATER/OIL:	n.av.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD):	n.ap.
FLAMMABILITY LIMITS IN AIR, % BY VOLUME: Non- flammable	LOWER: n.ap. UPPER: n.ap.
AUTO- IGNITION TEMPERATURE:	n.ap.
MEANS OF EXTINCTION:	as for surrounding fire
HAZARDOUS COMBUSION PRODUCTS:	Toxic fumes or oxides of phosphorous.
SPECIAL FIREFIGHTING PROCEDURES:	Use full protective gear and self-contained breathing apparatus.
EXPLOSION DATA-SENSIVITY TO MECHANICAL IMPACT:	n.av.
EXPLOSION DATA-SENSIVITY TO STATIC DISCHARGE:	n.av.

SECTION V REACTIVITY DATA

CHEMICAL STABILITY:	Stable.
CHEMICAL INCOMPATABILITY (MATERIAL & CONDITIONS):	Oxidizing material, contact with alkaline material, reactive metals.
HAZARDEOUS DECOMPOSITION PRODUCTS:	May emit toxic fumes of oxides of phosphorous.

SECTION VI TOXIOLOGICAL PROPERTIES

ROUTE OF ENTRY-	SKIN CONTACT:	X	EYE CONTACT:	X
	INGESTION:	X	INHALATION:	X

EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:

Inhalation- **May cause severe irritation to respiratory tract.**

Skin- **May cause burns.**

Eyes- **May cause severe burns and eye damage.**

Ingestion- **May cause severe burns to mouth, throat, and stomach. Risk of stomach perforation convulsions, nausea, vomiting and coma.**

EXPOSURE LIMITS: **Phosphoric Acid-TLV 1 mg/ m³**

SENSITIZATION TO PRODUCT: **n.av.**

CARCINODENICITY: **n.av.**

REPRODUCTIVE TOXICITY: **n.av.**

TERATOGENICITY: **n.av.**

MUTAGENICITY: **n.av.**

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: **None known.**

NORA SYSTEMS INC.

Descaler/Delimer

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SECTION VII PERSONAL PROTECTIVE EQUIPMENT

GLOVES: Rubber gloves should be worn.
EYES: Safety glasses with side shield.
FOOTWEAR: n.av.
RESPIRATOR: In severe exposure use self-contained breathing apparatus.
CLOTHING: Coveralls should be worn.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIRMENTS: Store in a cool, dry, well-ventilated area away from hot sources, metals and oxidizers.
SHIPPING INFORMATION: As required by federal, provincial, and local regulations.

LEAK AND SPILLAGE PROCEDURES: Dike and salvage or neutralize. Soda ash and lime are neutralizing agent.
HANDLING PROCEDURES: Keep container closed when not in use.
WASTE DISPOSAL: If material cannot be salvaged, it should be neutralized and discharged into a treatment system in accordance with all local, provincial and federal regulations.
SPECIAL ENGINEERING CONTROLS: Use under well-ventilated conditions with access to eyewash, safety shower and safety equipment.

SECTION IX FIRST AID MEASURE

EYES: Flush with water for at least 5 minutes. If irritation persists, seek medical attention.
SKIN: Wash off with plenty of water. If irritation persists get medical attention.
INGESTION: Do not induce vomiting. Give patient large quantities of water, milk egg whites or milk of magnesia. Get medical attention.
INHALATION: Remove from exposure. If breathing is difficult or discomfort persists, get medical attention.

SECTION X PREPARATION INFORMATION

PREPARED BY: TECHNICAL DEPARTMENT

TELEPHONE: 780-448-0145

DATE: JANUARY 2008

IMPORTANT: The information presented herein is believed to be accurate and is offered only as a guide. Users should make their own tests to determine the suitability of these products for their own particular purposes. Users assume all risk of use, storage and handling of the product. No warranty, express or implied, is made including, but no limited to, implied warranties of merchantability and fitness for a particular purpose. Nothing contained herein shall be construed as a license to operate under, or recommendation to infringe any patents.

n.av. - Not Available

n.ap- Not applicable