

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME:	HURRICANE	Emergency TEL: CANUTEC
PRODUCT USE:	Bowl and Tile 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:	Corrosive liquid, N.O.S. (Phosphoric Acid); Class 8; PIN 1805; PG III	

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Hydrochloric Acid	1-5	7641-01-0	LC50 (Inhalation, Rat) 3124 ppm for one hour
Phosphoric Acid	10-30	7664-38-2	LD50 (Oral, Rat) 1530 mg/kg

SECTION III PHYSICAL DATA

PHYSICAL STATE	Liquid	VAPOUR PRESSURE:(mmHg)	n.av.
COLOUR:	Teal	VAPOUR DENSITY:(AIR=1)	n.av.
ODOUR:	Wintergreen frag.	EVAPORATION RATE:	n.av.
BOILING POINT:	n.av.	SPECIFIC GRAVITY:	1.18
FREEZING POINT:	n.av.	pH:	<1
SOLUBILITY:	100%	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:	Water fog, foam, CO2 and dry chemicals.
HAZARDOUS COMBUSION PRODUCTS:	Oxides of phosphorous, nitrogen, carbon and hydrogen chloride.
SPECIAL FIREFIGHTING PROCEDURES:	Use full protective clothing and self-contained breathing apparatus.
EXPLOSION DATA-SENSIVITY TO MECHANICAL IMPACT:	n.ap.
EXPLOSION DATA-SENSIVITY TO STATIC DISCHARGE:	n.ap.

SECTION V REACTIVITY DATA

CHEMICAL STABILITY:	Stable.
CHEMICAL INCOMPATABILITY (MATERIAL & CONDITIONS):	Contact with alkaline materials, reactive metals and high temperatures.
HAZARDEOUS DECOMPOSITION PRODUCTS:	At flame temps, will emit toxic fumes of phosphorous oxide and hydrogen chloride.

SECTION VI TOXIOLOGICAL PROPERTIES

ROUTE OF ENTRY-	SKIN CONTACT:	X	EYE CONTACT:	X
	INGESTION:	X	INHALATION:	X
EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:				
Inhalation- Severe irritant.				
Skin- Severe irritant. Corrosive to tissue.				
Eyes- Severe irritant. Chemical burn likely.				
Ingestion- Severe irritant. Slightly toxic.				
EXPOSURE LIMITS:			n.av.	
SENSITIZATION TO PRODUCT:			n.av.	
CARCINODENICITY:			n.av.	
REPRODUCTIVE TOXICITY:			n.av.	
TERATOGENICITY:			n.av.	

NORA SYSTEMS INC.

HURRICANE

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MUTAGENICITY:

n.av.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS:

None known.

SECTION VII PERSONAL PROTECTIVE EQUIPMENT

GLOVES:	Rubber gloves.
EYES:	Safety goggles.
FOOTWEAR:	Rubber boots.
RESPIRATOR:	In severe exposure, use self-contained breathing apparatus.
CLOTHING:	Coveralls and apron should be worn.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIREMENTS:	Store in a cool, dry well ventilated area in closed container away from heat source, metals and oxides.
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. Recycle if possible.
HANDLING PROCEDURES:	Keep in closed container in cool, dry, well-ventilated area.
WASTE DISPOSAL:	If material cannot be salvaged, it should be neutralized and discharged into a treatment system in accordance with local, provincial and federal regulations.
SPECIAL ENGINEERING CONTROLS:	Use in a well ventilated area with access to eyewash, safety shower and safety clothing.

SECTION IX FIRST AID MEASURE

EYES:	Flush with plenty of water for 15 minutes. If irritation persists, seek medical help.
SKIN:	Wash off with water. If irritation persists, get medical attention.
INGESTION:	Do not induce vomiting. Give large quantities of water, milk, egg whites, or milk of magnesia. Get medical help.
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