

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME:	NORA DINE	Emergency TEL: CANUTEC
PRODUCT USE:	Sanitizer & Rinse Agent	(613) 996-6666
MANUFACTURERS NAME	NORA SYSTEMS INC.	
ADDRESS:	7807 Argyll Road, Edmonton, Alberta T6C 4A9	
SUPPLIER:	NORA SYSTEMS INC.	
WHMIS CLASSIFICATION:	E-Corrosive D2- Toxic	
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	5-10	7664-38-2	LD50 (Oral, Rat) 1530 mg/kg
Iodine	0.5-1.5%	7553-56-2	LD50 (Oral, Rat) 14 g/kg
Antarox	0.5-1.5%	68551-13-3	LD50 (Oral, Rat) 1350 mg/kg

SECTION III PHYSICAL DATA

PHYSICAL STATE	Liquid	VAPOUR PRESSURE:(mmHg)	n.av.
COLOUR:	Dark Brown	VAPOUR DENSITY:(AIR=1)	n.av.
ODOUR:	Iodine	EVAPORATION RATE:	n.av.
BOILING POINT:	n.av.	SPECIFIC GRAVITY:	1.1
FREEZING POINT:	n.av.	pH:	1.5l
SOLUBILITY:	100%	ODOUR THRESHHOLD:	n.av.
		COEFFICIENT OF WATER/OIL:	n.av.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): **n.av.**

FLAMMABILITY LIMITS IN AIR, % BY VOLUME: LOWER: **n.av.** UPPER: **n.av.**

AUTO- IGNITION TEMPERATURE: **n.av.**

MEANS OF EXTINCTION: **As for surrounding fire.**

HAZARDOUS COMBUSTION PRODUCTS: **Emits toxic fumes of phosphorus oxides and iodine vapours.**

SPECIAL FIREFIGHTING PROCEDURES: **Use full protective clothing 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 and reducing agent. metals, ammonia, cyanides, sulfides.**

HAZARDEOUS DECOMPOSITION PRODUCTS: **Phosphorous oxides and toxic gasses.**

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 eyes, throat and upper respiratory tract.**

Skin-**Severe irritation. Chemical burns are likely. May cause permanent blindness.**

Eyes- **Severe irritation, corrosive to tissue.**

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

EXPOSURE LIMITS: **Iodine: TLV 1 mg/m3 from ACGIH, Phosphoric Acid: TLV 1mg/m3 from ACGIH**

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

CARCINODENICITY: **n.av.**

REPRODUCTIVE TOXICITY: **n.av.**

TERATOGENICITY: **n.av.**

MUTAGENICITY: **n.av.**

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: **None known.**

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SECTION VII PERSONAL PROTECTIVE EQUIPMENT

GLOVES: Rubber gloves should be worn.
EYES: Safety glasses with side shields.
FOOTWEAR: Appropriate work footwear.
RESPIRATOR: Not normally necessary.
CLOTHING: Coveralls or apron should be worn to prevent contact with skin and clothing.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIRMENTS: Store in cool, dry area away from incompatibles. Keep close when not in use.
SHIPPING INFORMATION: As per TDG regulations.
LEAK AND SPILLAGE PROCEDURES: Dike and salvage or neutralize with soda ash or lime.
HANDLING PROCEDURES: Keep container closed when not in use.
WASTE DISPOSAL: In accordance with government regulations.
SPECIAL ENGINEERING CONTROLS: Use in a well ventilated area with access to safety equipment.

SECTION IX FIRST AID MEASURE

EYES: Flush with plenty of water for 15 minutes. If irritation persists, get medical attention.
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 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