

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME:	HWR RINSE AGENT	Emergency TEL: CANUTEC
PRODUCT USE:	Machine Dishwasher Additive	(613) 996-6666
MANUFACTURERS NAME:	NORA SYSTEMS INC.	
ADDRESS:	7807 Argyll Road, Edmonton, Alberta T6C 4A9	
SUPPLIER:	NORA SYSTEMS INC.	
WHMIS CLASSIFICATION:	D2B- Toxic B3-Combustible	
TDG CLASSIFICATION:	Class 3.3 Flammable Liquid UN 1219 PG II	

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Antarox	7-13	68551-13-3	LD50 (Oral, Rat) 1350 mg/kg
Isopropyl Alcohol	10-30	67-63-0	LD50 (Oral, Rat) 5 g/kg LC50 (inhalation, Rat) 8000 ppm

SECTION III PHYSICAL DATA

PHYSICAL STATE	liquid	VAPOUR PRESSURE:(mmHg)	n.av.
COLOUR:	Green	VAPOUR DENSITY:(AIR=1)	n.av.
ODOUR:	Alcohol Odour	EVAPORATION RATE:	n.av.
BOILING POINT:	100 Deg. C.	SPECIFIC GRAVITY:	0.972
FREEZING POINT:	-5 Deg. C.	pH:	8.1
SOLUBILITY:	100%	ODOUR THRESHHOLD:	n.av.
		COEFFICIENT OF WATER/OIL:	n.av.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD):	47 Deg.C. (SFCC)
FLAMMABILITY LIMITS IN AIR, % BY VOLUME: LOWER:	n.av. UPPER: n.av.
AUTO- IGNITION TEMPERATURE:	n.av.
MEANS OF EXTINCTION:	Water fog, Co2 or Dry Chemical.
HAZARDOUS COMBUSION PRODUCTS:	Carbon Oxides.
SPECIAL FIREFIGHTING PROCEDURES:	Do not use direct water stream. Wear full protective gear.
EXPLOSION DATA-SENSIVITY TO MECHANICAL IMPACT:	n.av.
EXPLOSION DATA-SENSIVITY TO STATIC DISCHARGE:	n.av.

SECTION V REACTIVITY DATA

CHEMICAL STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY (MATERIAL & CONDITIONS):	Oxidizing and reducing agents, acids.
HAZARDEOUS DECOMPOSITION PRODUCTS:	n.av.

SECTION VI TOXIOLOGICAL PROPERTIES

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

EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:
 Inhalation- **May cause upper respiratory tract irritation, dizziness.**
 Ingestion- **May cause nausea, vomiting and diarrhea.**
 Eyes- **May cause persistent eye irritation, which may cause permanent eye damage.**
 Skin- **May cause irritation if prolonged contact occur.**

EXPOSURE LIMITS:	Isopropyl Alcohol- TLV 400 ppm
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.

HWR Rinse Agent

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SECTION VII PERSONAL PROTECTIVE EQUIPMENT

GLOVES:	Rubber gloves may be worn.
EYES:	Safety glasses with side shield.
FOOTWEAR:	n.av.
RESPIRATOR:	Not normally required.
CLOTHING:	n.av.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIRMENTS:	Store in cool, well-ventilated area away from strong oxidizers.
SHIPPING INFORMATION:	As per TDG regulation.
LEAK AND SPILLAGE PROCEDURES:	For larger spills, contain and pick up. For small spills, wash area with warm water.
HANDLING PROCEDURES:	Keep container closed when not in use.
WASTE DISPOSAL:	Dispose in accordance with federal, provincial and local regulations.
SPECIAL ENGINEERING CONTROLS:	For use with adequate ventilation and access to eyewash.

SECTION IX FIRST AID MEASURE

EYES:	Rinse with water for 15 minutes. Get medical attention.
SKIN:	Wash off with warm water. If irritation persists, get medical attention.
INGESTION:	Drink large quantities of water or milk. Do not induce vomiting. Get medical attention.
INHALATION:	Move to fresh air.

SECTION X PREPARATION INFORMATION

PREPARED BY:	TECHNICAL DEPARTMENT
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TELEPHONE:	780-448-0145
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DATE:	JANUARY 2008
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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