

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 PRODUCT IDENTIFICATION**

PRODUCT NAME: **ADVANCE** Emergency TEL: CANUTEC  
 PRODUCT USE: Dishwash Detergent (613) 996-6666  
 MANUFACTURERS NAME: NORA SYSTEMS INC.  
 ADDRESS: 7807 Argyll Road, Edmonton, Alberta T6C 4A9  
 SUPPLIER: NORA SYSTEMS INC.  
 WHMIS CLASSIFICATION: D2B- Toxic.  
 TDG CLASSIFICATION: Not Regulated

**SECTION II HAZARDOUS INGREDIENTS**

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Sodium Carbonate	40-70	497-19-8	LD50 (Oral, Rat) 2800 g/kg ACGIH TLV-10 mg/m3
Sodium Metasilicate	7-13	6834-92-0	LD50 (Oral, Rat) 847 mg/kg
Sodium Dichloroisocyanurate	1-5	51580-86-0	LD50 (Oral, Rat) 735 mg/kg
Dihydrate (providing available chlorine)			LD50 (Dermal, Rabbit) >2 g/kg

**SECTION III PHYSICAL DATA**

PHYSICAL STATE	<b>Solid</b>	VAPOUR PRESSURE:(mmHg)	<b>n.ap.</b>
COLOUR:	<b>White</b>	VAPOUR DENSITY:(AIR=1)	<b>n.ap.</b>
ODOUR:	<b>Chlorine odour</b>	EVAPORATION RATE:	<b>n.ap.</b>
BOILING POINT:	<b>n.ap.</b>	SPECIFIC GRAVITY:	<b>n.av.</b>
FREEZING POINT:	<b>n.ap.</b>	pH:	<b>1% sol.11.3</b>
SOLUBILITY:	<b>10%</b>	ODOUR THRESHHOLD:	<b>n.av.</b>
		COEFFICIENT OF WATER/OIL:	<b>n.av.</b>

**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.av.**  
 MEANS OF EXTINCTION: **Water fog.**  
 HAZARDOUS COMBUSTION PRODUCTS: **See Hazardous Decomposition Products.**  
 SPECIAL FIREFIGHTING PROCEDURES: **n.ap.**  
 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 condition.**  
 CHEMICAL INCOMPATABILITY (MATERIAL & CONDITIONS): **Acids and also flammable hydrogen may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.**  
 HAZARDEOUS DECOMPOSITION PRODUCTS: **Chlorine, may liberate carbon oxides, phosphorous oxides and oxides of sodium during combustion.**

**SECTION VI TOXIOLOGICAL PROPERTIES**

ROUTE OF ENTRY-	SKIN CONTACT:	<b>X</b>	EYE CONTACT:	<b>X</b>
	INGESTION:	<b>X</b>	INHALATION:	<b>X</b>

EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:  
 Inhalation- **May cause irritation of respiratory tract, inflammation of the lungs.**  
 Skin-**Will cause irritation. May cause burns, dermatitis.**  
 Eyes-**Causes irritation to the mucous membranes of the eyes.**

Ingestion- **Burning in mouth and esophagus, nausea, abdominal pain diarrhea.**

EXPOSURE LIMITS: **n.av.**

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 sideshield.  
FOOTWEAR: Rubber boots.  
RESPIRATOR: A mask should be worn where dust occurs.  
CLOTHING: Long-sleeved shirt should be worn.

**SECTION VIII PREVENTIVE MEASURES**

STORAGE REQUIRMENTS: Store in a cool, dry place away from acids. Prolonged storage may cause product to cake and become wet from atmospheric moisture.  
SHIPPING INFORMATION: As per TDG regulations. Do not expose to wet conditions.  
LEAK AND SPILLAGE PROCEDURES: Sweep, scoop or vacuum discharged material. Flush residue. Observe environmental regulations.  
HANDLING PROCEDURES: Keep container closed to prevent caking.  
WASTE DISPOSAL: Neutralize with dilute acid and landfill solids in accordance to local, provincial and federal regulations.  
SPECIAL ENGINEERING CONTROLS: Use in a well-ventilated area with access to safety equipment.

**SECTION IX FIRST AID MEASURE**

EYES: Flush thoroughly with running water for 15 minutes. Get medical attention.  
SKIN: Remove contaminated clothing immediately and flush with water.  
INGESTION: Get medical help immediately. Give patient large quantities of water or milk to drink to dilute the chemical. Do not induce vomiting.  
INHALATION: Remove to fresh air and 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 not 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