

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

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

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Sodium Carbonate	30-60	497-19-8	LD50 (Oral, Rat) 4 g/kg
Sodium Sulphate	30-60	7757-82-6	LD50 (Oral, mouse) 5.99 g/kg
Sodium Tripolyphosphate	5-10	7758-29-4	LD50 (Oral, Rat) 6.5 g/kg
Sodium Metasilicate	3-7	6834-92-0	LD50 (Oral, Mouse) 770 mg/kg

SECTION III PHYSICAL DATA

PHYSICAL STATE	Solid	VAPOUR PRESSURE:(mmHg)	n.ap.
COLOUR:	White	VAPOUR DENSITY:(AIR=1)	n.ap.
ODOUR:	No odour	EVAPORATION RATE:	n.ap.
BOILING POINT:	n.ap.	SPECIFIC GRAVITY:	n.av.
FREEZING POINT:	n.ap.	pH:	Alkaline
SOLUBILITY:	10%	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.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon oxides.
SPECIAL FIREFIGHTING PROCEDURES:	As for surrounding fire.
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):	Oxidizing material, acids, nitrogen compounds, organics.
HAZARDEOUS DECOMPOSITION PRODUCTS:	Carbon, sodium and phosphorous oxides.

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 irritation to respiratory tract.**

Skin- **May cause irritation.**

Eyes- **May cause severe irritation and possible burns.**

Ingestion- **May cause severe throat and gastrointestinal irritation.**

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 may be worn.
EYES: Safety glasses.
FOOTWEAR: n.av.
RESPIRATOR: n.av.
CLOTHING: n.av.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIRMENTS: Store in a cool, dry place away from nitrogen containing compounds and other organic materials. Keep in tightly closed container. Protect from moisture.
SHIPPING INFORMATION: n.av.
LEAK AND SPILLAGE PROCEDURES: Minor spills should be washed down with lots of water and flushed to sewer.
HANDLING PROCEDURES: Store in cool, dry place away from nitrogen containing compounds and other organic materials.
WASTE DISPOSAL: Discard to licensed dump in area free of organic matter, rubbish, etc. Cover with soil. Follow local, provincial and federal regulations.
SPECIAL ENGINEERING CONTROLS: Use in a ventilated area with access to safety equipment.

SECTION IX FIRST AID MEASURE

EYES: Flush with cold water for at least 15 minutes. Get medical attention.
SKIN: Wash with non-abrasive soap and flush with plenty of water.
INGESTION: Immediately drink large quantities of water. Do not induce vomiting. Get medical attention.
INHALATION: Get fresh air. Call a physician.

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