

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME:	ALKALI SILICATE	Emergency TEL: CANUTEC
PRODUCT USE:	Laundry Detergent Activator	(613) 996-6666
MANUFACTURERS NAME	NORA SYSTEMS INC.	
ADDRESS:	7807 Argyll Road, Edmonton, Alberta T6C 4A9	
SUPPLIER:	NORA SYSTEMS INC.	
WHMIS CLASSIFICATION:	D1B- Poisonous	E-Corrosive
TDG CLASSIFICATION:	Corrosive Liquid Class 8 (9.2) UN 1824 PG II	

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Sodium Hydroxide	40-70	1310-73-2	LD50 (Oral, Rat) 3000 mg/kg
Sodium Gluconate	1-5	527-07-1	None

SECTION III PHYSICAL DATA

PHYSICAL STATE	liquid	VAPOUR PRESSURE:(mmHg)	2mm Hg@ 20 Deg.C.
COLOUR:	Green	VAPOUR DENSITY:(AIR=1)	n.av.
ODOUR:	Lemon Fragrance	EVAPORATION RATE:	n.av.
BOILING POINT:	100 Deg. C.	SPECIFIC GRAVITY:	1.29
FREEZING POINT:	-5 Deg. C.	pH:	Basic
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: **As for surrounding fire.**

HAZARDOUS COMBUSION PRODUCTS: **Carbon Oxides.**

SPECIAL FIREFIGHTING PROCEDURES: **As for surrounding fire.**

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 material, acid, chlorinated hydrocarbons, ammonia, aluminum, tin lead and zinc.**

HAZARDEOUS DECOMPOSITION PRODUCTS: **Hydrogen (from contact with other metals).**

SECTION VI TOXIOLOGICAL PROPERTIES

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

EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:

Inhalation- **Mist may cause irritation of respiratory tract, inflammation of the lungs.**

Ingestion- **May cause burning in mouth and esophagus, nausea, vomiting, abdominal pain and diarrhea. Perforation of gastrointestinal tract may occur. May be fatal.**

Eyes- **May cause severe irritation to the mucous membranes of the eyes. May cause ulceration of the eye. May cause cataracts and permanent blindness.**

Skin- **May cause severe irritation and burns to the skin.**

EXPOSURE LIMITS:	potassium hydroxide- TWA: 2 mg/m3 CEIL: 2 mg/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.

NORA SYSTEMS INC.

Alkali Builder

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SECTION VII PERSONAL PROTECTIVE EQUIPMENT

GLOVES: Rubber, vinyl or neoprene gloves should be worn.
EYES: Chemical worker goggles.
FOOTWEAR: Rubber boots.
RESPIRATOR: A mask should be worn.
CLOTHING: Coveralls.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIREMENTS: Store in a cool, dry area away from incompatibles.
SHIPPING INFORMATION: As per TDG regulations.
LEAK AND SPILLAGE PROCEDURES: With large spills, dyke for later disposal. Neutralize with diluted acid like hydrochloric or sulfuric acid. Minor spills can be neutralized and flushed with plenty of water.
HANDLING PROCEDURES: Use caution in mixing product.
WASTE DISPOSAL: Waste product should not be discharged into sewers or streams without being neutralized.
SPECIAL ENGINEERING CONTROLS: Use under well ventilated conditions with access to safety equipment.

SECTION IX FIRST AID MEASURE

EYES: Flush with plenty of water for at least 20 minutes. Get medical attention.
SKIN: Remove contaminated clothing immediately and flush with water for at least 15 minutes. Get medical help. No oil or ointment should be applied.
INGESTION: Get medical help immediately. Rinse mouth well with water and give patient large quantities of milk or water 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 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