

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: **CRSTAL CLEAR RTU** Emergency TEL: CANUTEC
 PRODUCT USE: Window Cleaner (613) 996-6666
 MANUFACTURERS NAME: NORA SYSTEMS INC.
 ADDRESS: 7807 Argyll Road, Edmonton, Alberta T6C 4A9
 SUPPLIER: NORA SYSTEMS INC.
 WHMIS CLASSIFICATION: B3-Combustible D2A- Toxic
 TDG CLASSIFICATION: Class 3(6.1) Flammable Liquid, Toxic, N.O.S. (Methanol); UN 1992; PG III

SECTION II HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TOXITY DATA: LD50, LC50
Methanol	15-40	67-56-1	LD50 340 mg/kg ACGIH TLV-200 ppm LD50 (Oral, Rat) 5628 mg/Kg

SECTION III PHYSICAL DATA

PHYSICAL STATE	liquid	VAPOUR PRESSURE:(mmHg)	100 mm Hg.@ 21.2 Deg.C.
COLOUR:	Blue	VAPOUR DENSITY:(AIR=1)	n.av.
ODOUR:	Ammonia Smell	EVAPORATION RATE:	4.6(Butyl Acetate=1)
BOILING POINT:	64 Deg. C.	SPECIFIC GRAVITY:	0.957
FREEZING POINT:	-25 Deg. C.	pH:	10.0 1% Sol.
SOLUBILITY:	100%	ODOUR THRESHHOLD:	n.av.
		COEFFICIENT OF WATER/OIL:	n.av.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): **38 Deg.C. –Tag closed cup**
 FLAMMABILITY LIMITS IN AIR, % BY VOLUME: LOWER: **6%** UPPER: **36.5%**
 AUTO- IGNITION TEMPERATURE: **n.av.**
 MEANS OF EXTINCTION: **Water fog, foam, Co2, and dry chemical.**
 HAZARDOUS COMBUSTION PRODUCTS: **Toxic gases and vapours, Such as carbon monoxides and unburned methanol.**
 SPECIAL FIREFIGHTING PROCEDURES: **Use self-contained breathing apparatus with full-face piece operated in pressure demand or other positive pressure mode. Wear full protective clothing.**
 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, and base, nitrated, perchlorates or sulfuric acid.**
 HAZARDEOUS DECOMPOSITION PRODUCTS: **See Hazardous Combustion products.**

SECTION VI TOXIOLOGICAL PROPERTIES

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

EFFECTS OF EXPOSURE- ACUTE AND CHRONIC:
 Inhalation- **Very toxic. Symptoms of intoxication by inhalation may include eye, nose, and throat irritation, dizziness, headache, and sickness.**

Ingestion- **Taken orally, it is very poisonous. May cause blindness and death.**

Eyes-**Irritation to eyes. Visual impairment or complete blindness.**

Skin-**Methanol is readily absorbed transcutaneously. Excessive skin contact should be avoided.**

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 side shield.
FOOTWEAR: Rubber boots.
RESPIRATOR: Use air supplies or self-contained breathing apparatus where concentration is above TLV.
CLOTHING: Coveralls should be worn.

SECTION VIII PREVENTIVE MEASURES

STORAGE REQUIREMENTS: Keep away from all source of ignition. Use with adequate ventilation.
SHIPPING INFORMATION: As per TDG regulations.
LEAK AND SPILLAGE PROCEDURES: Notify safety personnel. Remove all sources of ignition. Provide adequate ventilation. Absorb on vermiculite, paper or other absorbent. Burn in any approved or open pit away from buildings and people. Do not flush to sewer.
HANDLING PROCEDURES: Keep container closed when not in use.
WASTE DISPOSAL: It can be incinerated. Follow federal, provincial and local regulations.
SPECIAL ENGINEERING CONTROLS: Use with well-ventilated area to meet TLV requirements.

SECTION IX FIRST AID MEASURE

EYES: Wash thoroughly with plenty of water at least 15 minutes. Get medical attention.
SKIN: Wash thoroughly with water at least 15 minutes.
INGESTION: Induce vomiting only if the victim is conscious. Drink 3 glasses of milk, water or 4% sodium bicarbonate. Get immediate medical attention.
INHALATION: Get fresh air. Get medical help immediately. Administer oxygen if the victim's breathing becomes difficult.

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