

**HALL CHEM MFG. INC.**1270 rue Nobel  
Boucherville Qc J4B 5H1

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**MATERIAL SAFETY DATA SHEET****EMERGENCY : CANUTEC (613) 996-6666****MSDS: 504 -2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT :** Crystal**USE OF PRODUCT :** summer windshield washer fluid**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME :****WHMIS CLASSIFICATION:** B2, D2B**P.N.I. :****PRIMARY CLASS :** not regulated**PACKING GROUP :****SUBSIDIARY CLASS :****COMPONENTS**

COMPOSITION	% V/V	CASE #	LD <sub>50</sub> mg/kg Oral/rat	LC <sub>50</sub>	TLV ppm 8h
Isopropyl alcohol	>3	67-63-0	5000	22600	400

**PHYSICAL CHARACTERISTICS**

<b>PHYSICAL STATE :</b> Liquid	<b>APPEARANCE :</b> Pink	<b>ODOR :</b> Typical	<b>ODORTRESHOLD :</b> Not available
<b>VAPOR TENSION :</b> Not available	<b>VAPOR DENSITY :</b> Not available	<b>EVAPORATING RATE :</b> Not available	
<b>BOILING RANGE :</b> 100°C	<b>FREEZING POINT :</b> -7°C	<b>pH :</b> 8 to 9	
<b>DENSITY (20°C) :</b> 0,998	<b>DISTRIBUTION FACTOR WATER/OIL :</b> Not available	<b>SOLUBILITY IN WATER (25°C) :</b> 100% soluble	

**REACTIVITY DATA****CHEMICAL STABILITY :** Stable**INCOMPATIBILITY WITH OTHER PRODUCTS :** Strong oxidizing agents.**REACTIVITY CONDITIONS :** No hazardous polymerization.**EXPLOSION AND FIRE RISKS****FLAMMABILITY :** Not available.**EXTINGUISHING METHODS :** Chemical fire-extinguisher for alcohol.

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<b>ABSORPTION WAYS :</b>			<b>CONTACT :</b>		
<b>SKIN</b> ✓	<b>INHALATION</b> ✓	<b>INGESTION</b> ✓	<b>WITH SKIN</b> ✓	<b>EYES</b> ✓	

**EFFECTS OF EXPOSURE TO PRODUCT :** Product can cause skin and eyes irritation. Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea.**PREVENTIVE MEASURES****PROTECTIVE EQUIPMENT :** Gloves, security glasses.**GLOVES :** Impervious**RESPIRATORY SYSTEM :** None.**OCULAR INSTRUMENT :** Security glasses.**CLOTHING :** None**TECHNICAL CONTROL :** Local ventilation.**PROCEDURE IN CASE OF LEAKS/SPILLS :** Stop the spill and prevent entry into sewer and aqueduct. Advise authority. In case of small spill, mop up with an appropriate absorbent and dispose in an adequate container.**HANDLING :** Wear the protective equipment indicated.**STORAGE :** Store in a cool and well-ventilated area. Keep away from incompatible materials.**FIRST AID****SKIN :** Wash with soap and water.**EYES :** Flush immediately for at least 15 to 20 minutes while holding eyelids apart. Consult a physician.**INHALATION :** Move victim to fresh area and give artificial respiration if is not breathing. Consult a physician.**INGESTION :** Give tepid water. Do not induce vomiting because it may cause damages to lungs.**INFORMATION ON THE M.S.D.S. PREPARATION****PREPARED BY :**  
Hall Chem Mfg. Inc.**TELEPHONE :** (450) 645-0296**REVISED:** January 2015

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