

## MATERIAL SAFETY DATA SHEET

Flammability	Physical Hazards
2	0
Health	Personal Protection
1	

### SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Crystal Clear Concentrate (4820) WHMIS Class D, 2B  
 Manufacturer Crown Chemical Products Inc. Supplier's Name  
 Street Address 6125 Netherhart Road Supplier's Address  
 Mississauga Ontario  
 L5T 1G5  
 Emergency Tel. (905) 564-0904  
 Chemical Name Chemical Family  
 Molecular Weight Material Use

### SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U. N. Numbers	Exposure Limits	LD <sub>50</sub> / LC <sub>50</sub> Specify Species and Route
Isopropanol	15-40	67-63-0	ACGIH-TLV-TWA 400ppm	LD <sub>50</sub> (ORAL, RAT)= 5045mg/kg LC <sub>50</sub> (INHALATION)= 16000ppm / 8hr
2-Butoxyethanol	5-10	111-76-2	ACGIH-TLV-TWA 25ppm	LD <sub>50</sub> (ORAL, RAT) = 530 LC <sub>50</sub> (INHALATION, 450 RAT) ppm/1hr

### SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Liquid Odour and Appearance Deep blue, ammonia odour  
 Specific Gravity 0.9 Evaporation Rate N/AV Boiling Point (°C) 80  
 Freezing Point (°C) n/av Solubility in Water (20°C) complete % Volatile (by volume) .99  
 pH n/av Density (g/ml) .9 Coefficient of Water/Oil Distribution

### SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability (if yes, under which conditions:) Yes. Under fire conditions.  
 Means of Extinction CO<sub>2</sub>, alcohol foam, water fog, dry chemical.  
 Special Procedures Do not use direct water stream. Wear self-contained breathing equipment.  
 Flashpoint (°C) and Method N/AV UEL (% By Vol.) N/AV LEL (% By Vol.) N/AV  
 Auto Ignition Temp. (°C) N/AV TDG Flammability Classification UN1219 3.2Pkg GR 2  
 Hazardous Combustion Products CO, CO<sub>2</sub>  
 Explosion Data - Sensitivity to Chemical Impact N/AV Rate of Burning N/AV  
 Explosive Power N/AV Sensitivity to Static Discharge N/AV

### SECTION V - REACTIVITY DATA

Chemical Stability Yes.  
 Incompatibility to Other Substances Yes. Strong Oxidizers.  
 Reactivity and Under What Conditions? Aluminum at high temperature.  
 Hazardous Decomposition Products CO, CO<sub>2</sub>

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### SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route Of Entry  Skin Contact  Skin Absorption  Eye Contact  Inhalation Acute  Inhalation Chronic  Ingestion

Effects Of Acute Vapour is irritating to eyes, may cause conjunctivitis & corneal damage. On skin could cause

Exposure To Product Dermatitis, will cause nausea & vomiting.

Effects Of Chronic May cause dermatitis. The liquid is severe eye irritant which may cause permanent eye

Exposure To Product damage. CNS Depression. Severe exposure may lead to coma or death.

Irritancy Of Product N/A/V

Exposure Limits Of Product N/A/V

Sensitization To Product N/A/V

Synergistic Materials N/A/V

Carcinogenicity  Reproductive Effects  Teratogenicity  Mutagenicity

No information available No effects anticipated.

### SECTION VII - PREVENTIVE MEASURES

Personal Protective Equipment

Gloves Rubber

Respiratory Not required for normal use

Eye Chemical Goggles

Footwear None special

Clothing N/A/P

Other

Engineering Controls Local exhaust

Leak And Spill Procedure Flush with water - After eliminating. All sources of ignition.

Waste Disposal In approved incinerator, or waste facility according to local regulations

Handling Procedures And Equipment No special precautions

Storage Requirements Store in cool place where possible.

Special Shipping Information

### SECTION VIII - FIRST AID MEASURES

Skin Wash with soap and water thoroughly.

Eye Flush with water for 15 minutes. Get medical attention if necessary.

Inhalation Remove to fresh air. Give artificial respirator if not breathing obtain medical attention.

Ingestion Do not induce vomiting. Give 1-2 glasses of water to dilute. Take to emergency or poison control centre.

General Advise

### SECTION IX - PREPARATION DATE OF M.S.D.S.

Additional Information/Comments The information herein is given in good faith but no warranty, expressed or implied, is made.

Sources Used

Prepared By: Crown Chemical Products Inc. Phone Number (905) 564-0904 Date January 19, 2012