



# Krystal Green

Concentrate

## Glass & Surface Cleaner

### DESCRIPTION

**Krystal Green** is a carefully formulated combination of proven cleaners and the latest in chemical technology. It's concentrated formula and multipurpose design make it versatile, effective and extremely economical. **Krystal Green's** bright color and clean scent make it very pleasant to use.

As a spray and wipe, **Krystal Green** removes grease, finger marks, smoke build-up, some ink marks and graffiti, and other light soils. Use **Krystal Green** safely on surfaces such as automotive glass, plastics, vinyl, counter tops, appliances, painted surfaces, stainless steel and even wood.

**Krystal Green** in dilution is also an excellent ready-to-use glass and mirror cleaner where fast drying and non-streaking are important considerations.

### SPECIAL INFORMATION

**Krystal Green** is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants. Surfaces in direct food contact must be rinsed with potable water.

### DIRECTIONS

**For surface cleaning as a spray and wipe:**

Use 13 oz per US gallon of water (100 ml/litre) (1:10).

**For glass and mirror cleaning:**

Use 6.5 oz per US gallon of water (50 ml/litre) (1:20).

**For 5 gallon dispenser system:**

Use 32 oz per US 4.75 gallon of water (50 ml/litre) (1:20).

### PHYSICAL DATA

Appearance	Clear liquid
Color	Dark green
Odor	Light scent
Foam	Low
pH	10.0 - 11.0

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **KRYSTAL GREEN**

WHMIS CODE: D2B

Product Use: *Glass & surface cleaner.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

### HMIS

2	Health
1	Flammability
0	Reactivity
B	Personal

M-chem Technologies Inc.  
1607 Derwent Way  
Delta, BC V3M 6K8, Canada  
Phone: (604) 526-5655

### EMERGENCY PHONE

Canada: Canutec 613-996-6666

U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves  
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>ETHYLENE GLYCOL MONOBUTYL ETHER</b> Exposure Limit Skin: 25 ppm The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986 LD 50 (oral rat) 1746 mg/kg LD 50 (dermal) 435 mg/kg (Rabbit) LC50 700 ppm, 7hr. (Mouse)	111-76-2	5.0-10.0	no data	25 ppm TWA
<b>MONOETHANOLAMINE</b> LD50 (oral rat) 1720 mg/kg LD50 (dermal) 1000 mg/kg LC50 N/A	141-43-5	1.0-5.0	3 ppm	3ppm

## SECTION 3 – PHYSICAL DATA

**Color and Odor:** Green, mild ammonia odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 10.0 – 11.0  
**Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 0.998 @20°C  
**Coef. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** None. **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.  
**Flammable Limits:** None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.  
**Unusual Fire and Explosion Hazards:** None. **Conditions of Flammability:** None.  
**Hazardous Combustion Products:** Carbon and nitrogen oxides, ammonia gases.  
**Special Fire Fighting:** Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions. **Hazardous Polymerization:** Will not occur.  
**Incompatibility (material to avoid):** Strong oxidizer and acids.  
**Hazardous Decomposition Products:** Carbon and nitrogen oxides, ammonia gases.

## SECTION 6 – TOXICOLOGICAL DATA

**Exposure Limits:** See Section 2 under Hazardous Ingredient. **Carcinogenicity:** None known.  
**Irritation of Product:** Irritating to skin, eyes and respiratory system. **Routes of Entry:** skin & eye contact, inhalation.  
**Sensitization:** None known. **Teratogenicity:** None known  
**Mutagenicity:** None known. **Reproductive Toxicity:** None known.  
**Name of Toxicological Synergistic Product:** None known.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder and may also cause blood disorders through skin absorption of ethylene glycol mono-butyl ether (based on animal test data).  
**Effects of Acute Exposure to Product:** Product exposure may irritate or burn skin and eyes. Prolonged inhalation of vapors or mists may cause breathing problems, headaches, and nausea. Also, may be harmful if absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** Normally not required. However, if product is misted or sprayed, use a NIOSH/MSHA approved mist & organic vapor respirator.  
**Ventilation:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Protective Gloves:** Use Butyl rubber or Neoprene gloves when handling concentrate.  
**Eye Protection:** Chemical goggles, safety goggles or glasses.  
**Protective Clothing and Equipment:** Eyes wash recommended in the immediate work area.  
**Storage and Handling Procedures:** Use good industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Scoop up any spills and place in sealed container for disposal. Keep away from sewers and natural waters.  
**Waste Disposal Method:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.  
**Special Shipping Information:** Store at temperature below 30°C. Keep from freezing.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:**  
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division      PHONE: 604-526-5655      LAST UPDATE: 07/04/11  
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE