

# 40 Krystal Green GLASS & SURFACE CLEANER

## Product description

Krystal Green is a carefully formulated combination of proven cleaners and the latest in chemical technology. It's concentrated formula and multi-purpose 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.

Krystal Green is an excellent ready-to-use glass and mirror cleaner.

## Why it's a better cleaner

- The cleanworks<sup>®</sup>2 system dispenses it right every time.
- Super concentrated – economical to use.
- Canadian Food Inspection Agency approved.

## How it cleans

This product is formulated to work effectively with cold water. Cold water is recommended to help save energy used to heat water.



1. Dispense #40 Krystal Green according to dilution chart.



2. Apply solution to surface to be cleaned.



3. Allow this product time to penetrate and disperse the soils and contaminant.

Scrubbing with a sponge, cloth, pad or brush may speed up the cleaning action

4. Once soils are loosened simply wipe with a cloth. No rinsing is necessary.



## Dilution chart

DILUTE 1:128

Dispenses 516 litres of ready-to-use cleaner from the 2 x 2 litre concentrate case of cleanworks<sup>®</sup>2 Krystal Green.

## Where it cleans

Use Krystal Green safely on surfaces such as automotive glass, plastics, vinyl, counter tops, appliances, painted surfaces, stainless steel and even wood.

## Technical Data

Packaging.....	2/2 Litre
Physical State.....	Liquid
Color.....	Bright Green
Odor.....	Low
pH.....	10.5
VOCs.....	< 1%
Foam.....	Ultra Low
Freeze/Thaw Stability.....	Excellent
Solubility in Water.....	Complete

*cleanworks2 is a registered trademark of Maxim Technologies Inc.*

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**MATERIAL SAFETY DATA SHEET** Page 1 of 4

**SECTION I PRODUCT IDENTIFICATION**

**Product Trade Name:** 40 Krystal Green CW2  
**Description:** Glass and surface cleaner for CW2 dispensing system  
**Manufacturer:** Maxim Technologies Inc.  
**Effective Date:** Dec. 29, 2014

**SECTION II COMPOSITION IDENTIFICATION**

Ingredient	Approx. Wt.%	SARA-313	CAS Number	PEL	TLV
Ethylene Glycol Monobutyl Ether	50.0-70.0		111-76-2	50 ppm	20 ppm TWA
Sodium Alkylbenzene Sulphonate	5.0-10.0		25155-30-0	None	None
Monoethanolamine	15.0-20.0		141-43-5	3 ppm	3 ppm

None of the other components in this mixture contribute significantly to the hazards associated with this component. All pertinent hazard information has been provided in this MSDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).

**SECTION III HAZARD IDENTIFICATION**

**Route of Entry:** Skin, eyes, inhalation.  
**Eyes:** May cause severe irritation. May cause corneal injury to eyes.  
**Skin:** May cause irritation, itching and local redness.  
**Inhalation:** May cause breathing problems, headaches, nausea, and irritation to respiratory system.  
**Ingestion:** May cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.  
**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 monobutyl ether (based on animal test data).  
**Effects of Acute Exposure to Product:** Product exposure may irritate eyes. Also, may be harmful if absorbed through skin.

**SECTION IV FIRST AID MEASURES**

**Ingestion:** Give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician.  
**Skin Contact:** Wash with clean water and rinse well.  
**Eye Contact:** Flush with clean water for at least 15 minutes.  
**If irritation occurs or persists, get medical attention.**

**SECTION V FIRE FIGHTING MEASURES**

**Extinguishing Media:** Not flammable.  
**Special Firefighting Procedures:** Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.  
**Unusual Fire / Explosion Hazards:** None.

**SECTION VI ACCIDENTAL RELEASE MEASURES**

**Environmental Protection Precautions:** Do not release to the environment or water source.  
**Steps To Be Taken In Case Material Is Released Or Spilled:** Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers. Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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**SECTION VII    HANDLING AND STORAGE**

**Precautions To Be Taken In Handling And Storage:** 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.

**SECTION VIII    EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory Protection:** Normally not required. However, if product is misted or sprayed, use a NIOSH/MSHA approved mist & organic vapor respirator.

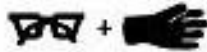
**Ventilation: Local Exhaust:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.

**Protective Gloves:** Use rubber or plastic gloves when handling the concentrated product.

**Eye Protection:** Chemical goggles, safety goggles or face shield.

**Other Protective Equipment:** Eye wash recommended in the immediate work area.

HMIS Protection  
Group B



**SECTION IX    PHYSICAL DATA**

<b>Appearance:</b>	Dark green liquid.
<b>Odor:</b>	Floral/ammonia odor.
<b>pH:</b>	10.5-11.5
<b>Boiling Point:</b>	N/D
<b>Melting Point:</b>	N/D
<b>Flash Point:</b>	>93°C
<b>Explosive Properties:</b>	None.
<b>Oxidizing Properties:</b>	None.
<b>Vapor Pressure:</b>	N/D
<b>Vapor Density (Water Vapor=1):</b>	N/D
<b>Specific Gravity (Water=1):</b>	0.96 @ 20°C
<b>Evaporation Rate (Water=1):</b>	N/D
<b>Solubility in Water:</b>	Soluble.

**SECTION X    STABILITY AND REACTIVITY INFORMATION**

<b>Stability:</b>	Stable under normal storage conditions.
<b>Incompatibility:</b>	Strong oxidizer and acids.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Carbon and nitrogen oxides, aldehydes, ketones, ammonia gases.

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**SECTION XI      ECOLOGICAL INFORMATION**

Ingredient	Ecotoxicity – Fish Species	Acute Crustaceans Toxicity	Ecotoxicity Freshwater Algae Data
Ethylene Glycol Monobutyl Ether	LC <sub>50</sub> 96h (Lepomis macrochirus) 2950 mg/L; 1490 mg/L static	N/A	N/A

**SECTION XII      TOXICOLOGICAL PROPERTIES**

<b>Ethylene Glycol Monobutyl Ether</b>	
LD <sub>50</sub> (oral rat):	917 mg/kg
LD <sub>50</sub> (dermal rabbit):	220 mg/kg
LC <sub>50</sub> (mouse):	700 ppm, 7hr
<b>Sodium Alkylbenzene Sulphonate</b>	
LD <sub>50</sub> (oral rat):	1260 mg/kg
LD <sub>50</sub> (dermal rabbit):	N/A
LC <sub>50</sub> :	N/A
<b>Monoethanolamine</b>	
LD <sub>50</sub> (oral rat):	1720 mg/kg
LD <sub>50</sub> (dermal rabbit):	1000 mg/kg
LC <sub>50</sub> :	N/A
Threshold Limit Value:	N/A
Carcinogenicity:	None known.
Mutagenicity:	None known.
Reproductive Toxicity:	None known.
Teratogenicity:	None known.
Sensitization:	None known.
Irritancy of Product:	Irritating to skin, eyes, and respiratory system.

**SECTION XIII      DISPOSAL CONSIDERATIONS**

**Recommended Waste Disposal Methods:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

**SECTION XIV      TRANSPORT INFORMATION**

This product is classified as "Non-flammable, Non-hazardous, Not Restricted" for Transport purposes.

United Nations Number:	None.
ADR/RID Class:	
IATA Class:	
IMO Class:	
IMDG Code:	
Marine Pollutant classification:	Not classified as a Marine Pollutant.

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SECTION XV REGULATORY INFORMATION

HAZARD RATING INFORMATION

4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Insignificant

HMS

2	Health
1	Flammability
0	Reactivity
B	Personal

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

Canada

WHMIS classification - D1A, D2B

SECTION XVI OTHER INFORMATION

Toxic Substances Control Act: (USA)

SARA: (USA)

Section 302 -

Sections 311/312 -

Section 313 -

This product is on the 8(B) Inventory List (40 CFR 710).

This product does not contain materials listed in

Appendix A or B as an Extremely Hazardous Substance.

Materials listed in 29 CFR 1910, Subpart Z are identified in Section III. None are known or suspected carcinogens listed by the National Toxicology Program, International Agency for Research on Cancer, or OSHA.

Listed materials contained in this product are identified in Sections II or III of this MSDS.

USER'S RESPONSIBILITY

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. **Maxim Technologies Inc.** will accept no liability for damages or loss incurred from the improper handling and use of this product.

PREPARATION INFORMATION

The information provided in the Material Safety Data Sheet has been obtained from current sources and is believed to be reliable.

PREPARED BY: Technical Service/Regulatory Division

LAST UPDATE: Dec. 29, 2014