Safety Data Sheet Sections

SECTION 1: IDENTIFICATION	
Product Trade Name:	Maxim Krystal Green Glass Cleaner
Product Code:	1300679
Recommended Use:	Glass and surface cleaner
Restrictions on Use:	For Food Plant, Industrial and Institutional use only
Manufacturer Name:	Project Clean Inc.
Manufacturer Address:	1607 Derwent Way, Delta, B.C. Canada V3M 6K8
Manufacturer Phone Number:	800-663-9925
Email Address of Competent Person Responsible for the SDS:	regulatory@projectclean.com
Emergency Phone Number/ 24-Hour Number:	**For Transportation Emergencies:** Canutec 613-996-6666 **Emergency Response Services**: Chemtrec 800-424-9300

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SECTION 2: HAZARD IDENTIFICATION	
Physical Hazards:	NONE
Health Hazards:	SKIN CORROSION/IRRITATION – Category 2
	EYE DAMAGE/IRRITATION – Category 2
	ASPIRATION HAZARD – Category 1
Label Elements:	
Signal word:	DANGER
Hazard Statement:	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
	H304 May be fatal if swallowed and enters airways.
PRECAUTIONARY STATEMENTS	
Prevention:	P264 Wash hands or affected area thoroughly after handling.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Responses:	P302 + P352 IF ON SKIN: Wash with plenty of water.
	P332 + P313 If skin irritation occurs: Get medical advice/attention.
	P362 + P364 Take off contaminated clothing and wash it before reuse.

SECTION 2: HAZARD IDENTIFICATION	
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313 If eye irritation persists: Get medical advice/attention.
	P321 Specific treatment (see supplemental first aid information on this label).
	P301 + P316 IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	**Approx. Wt.%**	**CAS Number**
Ethylene Glycol Monobutyl Ether	7-13	111-76-2
Monoethanolamine	1-5	141-43-5
Ammonia	<1	7664-41-7

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SECTION 4: FIRST-AID MEASURES	
General Information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:	Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Immediately flush exposed area with plenty of water for at least 10 minutes. If irritation persists, or if contact has been prolonged, obtain medical attention. Remove contaminated clothing and launder before reuse.
Eye Contact:	Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.
Ingestion:	Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.
Self-Protection of the First Aider:	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 4: FIRST-AID MEASURES	
Most Important Symptoms/ Effects, Acute and Delayed:	**Ingestion:** May be fatal if enters airways. **Inhalation:** Low toxicity. **Eyes and skin:** Irritating to eyes and skin. Repeated or prolonged skin contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.
Note to Physicians:	Treatment based on sound judgment of physician and individual reactions of patient. Due to structural analogy and clinical data, this material may have a mechanism of intoxication similar to ethylene glycol. On that basis, treatment similar to ethylene glycol intoxication may be of benefit. In cases where several ounces {60 - 100 ml) have been ingested, consider the use of ethanol and hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/di may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be required. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
If irritation occurs or persists, get medical attention.	

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SECTION 5: FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media:	Product not flammable. Use extinguishing media suitable for surrounding fires.
Unsuitable Extinguising Media:	None known.
Flammability:	Not flammable.
Flash Point:	Not flammable.

SECTION 5: FIRE-FIGHTING MEASURES	
Special Firefighting Procedures:	Wear full protective equipment including NIOSH/MSHA approved breathing apparatus. Use water spray to cool all nearby fire exposed surfaces.
Unusual Fire / Explosion Hazards:	Explosive products are formed by the reaction of ammonia with silver chloride, silver oxide, bromine, iodine, gold, mercury, tellurium halides. This material may produce a floating fire hazard in extreme fire conditions. This product can produce flammable vapors which may travel to a source of ignition and flash back. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.
Hazardous Decomposition Products:	Nitrogen oxides, ammonia. Carbon monoxide, carbon dioxide. The smoke may contain unidentified toxic and/or irritating compounds.

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SECTION 6: 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 7: HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storage:	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30°C and above 5°C. Do not store in metal containers.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
EXPOSURE LIMITS:		
OSHA (PEL): N/A	ACGIH TLV: N/A	Other exposure limit: N/A
INDIVIDUAL PROTECTION MEASURES / PERSONAL PROTECTIVE EQUIPMENT		
Appropriate Engineering Controls:	Good general ventilation.	
Skin Protection:	Hand Protection: Butyl rubber, neoprene, latex or nitrile gloves.	

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
	Other Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Appropriate footwear should be selected based on the task being performed and the risks involved.
Eye and Face Protection:	Use chemical goggles or safety glasses.
Respiratory Protection:	None required. If inhalation of concentrated product spray/mist is likely use a NIOSH approved respirator.
Other Protective Equipment:	Eye wash, safety shower and full protective clothing recommended in the immediate work area.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Dark green liquid.
Odour:	Floral/ ammonia.
Odour threshold:	N/A
pH:	10.0-11.0
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	>100°C
Evaporation Rate (Water=1):	N/A
Flammability:	Not flammable
Upper/Lower flammability or explosive limits:	None.
Vapor pressure:	N/A
Vapor density:	N/A
Relative density/Specific gravity (Water = 1):	0.96 @ 20°C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	Not flammable
Decomposition temperature:	N/A
Viscosity:	N/A
VOCs%:	N/A

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SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	N/A
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Adding sodium hydroxide to this material and or heating will volatize ammonia gas. Contact with iodine, bromine, calcium, hypochlorite mixtures, contact with halogens may cause violent splattering. Explosive products are formed by the reaction of ammonia with silver chloride, silver oxide, bromine, iodine, gold, mercury, tellurium halides.
Conditions to avoid:	Temperatures above 30°C and below 5°C.
Incompatibility:	Acids, bleach.
Hazardous Decomposition Products:	Nitrogen oxides, ammonia. Carbon monoxide, carbon dioxide. The smoke may contain unidentified toxic and/or irritating compounds.

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SECTION 11: TOXICOLOGICAL INFORMATION	
Likely routes of exposure:	Skin contact, skin absorption, eye contact, inhalation, ingestion.
Symptoms:	SKIN CONTACT: Causes skin irritation. EYE CONTACT: Causes serious eye irritation. INHALATION: May cause mild irritation. INGESTION: May be fatal if enters airway.
Acute Toxicity Estimates:	LD_{50} Oral ATE > 2000 mg/kg
	LD_{50} Dermal ATE > 2000 mg/kg
	LD_{50} Inhalation ATE: N/A
Skin Sensitization:	Data available on components indicates no potential skin sensitization.
Germinal Cell Mutagenicity:	Data available on components indicates no potential germinal cell mutagenicity.
Reproductive Toxicity:	Data available on components indicates no potential reproductive toxicity.
Carcinogenicity:	Not listed by NTP, IARC, OSHA, ACGIH.
Aspiration Hazard:	Data available on components indicates no potential aspiration hazard.

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SECTION 12: ECOLOGICAL INFORMATION	
Toxicity to Fresh Water Algae:	N/A

SECTION 12: ECOLOGICAL INFORMATION	
Toxicity to Fish Species:	N/A
Toxicity to Aquatic Invertebrates:	N/A
Persistence and degradability:	N/A

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SECTION 13: DISPOSAL CONSIDERATIONS	
Recommended Waste Disposal Methods:	Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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SECTION 14: TRANSPORT INFORMATION	
Canadian TDG UN Number:	Not regulated
UN Proper Shipping Name:	Not regulated
Transport Hazard Class(es):	Not regulated
Packing Group:	Not regulated
Environmental Hazards:	Not available.
Special Precautions for User:	Not available.
Additional Information:	Not available.

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SECTION 15: REGULATORY INFORMATION

HAZARD RATING INFORMATION

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

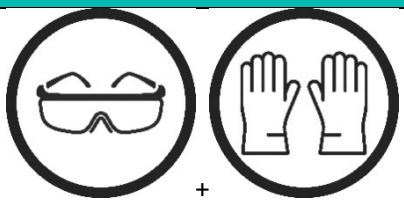
HMIS

2	Health
0	Flammability
0	Reactivity
B	Personal protection

B = Safety Glasses + Gloves

HMIS Protection
Group B

SECTION 15: REGULATORY INFORMATION



All pertinent hazard information has been provided in this SDS, 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).

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SECTION 16: OTHER INFORMATION

ACRONYM LIST

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DSL/NDSL	Domestic Substances List/ Non-domestic Substance List
EC_{50}	Half maximal effective concentration
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
LC_{50}	Lethal concentration, 50%
LD_{50}	Lethal dose, 50%
MSHA	Mine Safety and Health Administration
N/A	Not Available
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified
PMMCC	Pensky-Martens Closed Cup
P_{ow}	Partition Coefficient Octanol: Water
SDS	Safety Data Sheets

SECTION 16: OTHER INFORMATION	
STOT – SE	Specific Target Organ Toxicity – Single Exposure
STOT – RE	Specific Target Organ Toxicity – Repeated Exposure
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
UN	United Nations
VOCs	Volatile Organic Compounds
WEL	Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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

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