



Glass Cleaner

DESCRIPTION

Sapphire is an outstanding ready-to-use glass cleaner. Cleans quickly and streak-free with a gentle, fast-breaking foam. **Sapphire** contains ammonia to help cut through the more heavily soiled areas.

Sapphire is great on all glass surfaces...windows, mirrors, display cases and automotive glass. **Sapphire** is also formulated to be effective on acrylic, metal, hard plastic laminates, ceramic tile and porcelain surfaces.

DIRECTIONS

Sapphire is a ready-to-use product, no dilution is required.

Just pour **Sapphire** into any convenient trigger spray bottle. Spray ready-to-use **Sapphire** solution onto surface and wipe clean with a paper towel or clean cloth.

PHYSICAL DATA

Appearance	Clear liquid
Color	Blue
Foam	Low
Odor	Sweet, ammonia
pH	10.0 - 11.0

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **SAPPHIRE**

WHMIS CODE: D2B

Product Use: *Ready-To-Use glass cleaner.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

HMIS

1	Health
0	Flammability
0	Reactivity
B	Personal

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

Maxim 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

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
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.0 – 5.0	no data	25 ppm TWA
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)			

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear blue, 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: 1.01@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: None known.		
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: None known.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient.
Irritancy of Product: May cause mild eye or skin irritation but this product is not considered an irritant under WHMIS criteria.
Name of Toxicological Synergistic Product: None known.
Sensitization: None known.
Mutagenicity: None known.
Effects of Chronic Exposure: None known.
Effects of Acute Exposure to Product: Concentrated product may cause eyes or skin irritation.

Routes of Entry: skin & eye contact, inhalation.
Teratogenicity: None known
Reproductive Toxicity: None known.
Carcinogenicity: None known.

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: Normal ventilation.
Protective Gloves: Normally not required.
Eye Protection: Normally not required. However, wear chemical goggles, safety goggles or glasses if product been misted/sprayed in confined space.
Protective Clothing and Equipment: Eyes wash recommended in the immediate work area.
Storage and Handling Procedures: 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

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THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE