



ENFORCER Products
 A Division of Acuity Specialty Products
 Group, Inc.
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Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **Streak-Free Glass Cleaner**

Product Code **ZU1120**

Date of issue **08/13/07** **Supersedes**

Emergency Telephone Numbers **For a Medical Emergency:**
 INFOTRAC
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
 CHEMTREC
 (800) 424-9300 (Toll Free - Calls Recorded)

Printing Date:

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact.

Skin May cause mild irritation with direct contact. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.

HMIS	
Health	1
Fire Hazard	2
Reactivity	0
Personal Protection	B

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated or prolonged exposure to the substance can produce damage to blood, kidneys, liver, upper respiratory tract, central nervous system (CNS). Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

Skin Contact Rinse with plenty of running water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If irritation persists, get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 43°C (110°F).	Flammable Limits	Not available.
Flammability	Combustible liquid and vapor.		
Fire Hazard	Vapor may cause flash fire. Avoid all possible sources of ignition (spark or flame).		
Fire-Fighting Procedures	Use DRY chemicals, CO ₂ , water spray or foam. Fire-fighters should wear proper protective equipment.		

**Section 6. Accidental Release Measures**

Spill Clean up	Eliminate all ignition sources. Small spills can be taken up with an absorbent and placed in clean dry containers for later disposal. Finish cleaning the spill area with running water.
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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use with adequate ventilation. Do not ingest. Do not reuse product container. Wash thoroughly after handling.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes	Safety glasses.	
Body	For prolonged or repeated handling, use gloves.	
Respiratory	A respirator is not needed under normal and intended conditions of product use. Use with adequate ventilation.	

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Clear. Dark Blue.
pH	10.5 - 11.0	Odor	Pleasant.
Boiling Point	96.1°C (205°F)	Vapor Pressure	Not determined.
Specific Gravity	0.99 (Water = 1)	Vapor Density	Not determined.
Solubility	Soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	39 (g/l). 0.33 lbs/gal 3.95%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Slightly reactive to reactive with oxidizing agents, acids.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information

Toxicity to Animals	Isopropyl Alcohol:
	ORAL (LD50): Acute: 4700 mg/kg [Rat].
	DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].
	VAPOR (LC50): Acute: 22500 ppm 8 hour(s) [Rat (Male)]. 19000 ppm 8 hour(s) [Rat (Female)].
	Ethylene Glycol Monobutyl Ether:
	ORAL (LD50): Acute: 1746 mg/kg [Rat].
	DERMAL (LD50): Acute: 680 mg/kg [Rabbit].
	VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Non-hazardous waste
Consult your local or regional authorities.	

Section 14. Transport Information

Proper shipping name	None.
DOT Classification	Not a DOT controlled material (United States).
UN number	Not regulated.
TDG Classification	Not a TDG controlled material.

Section 15. Regulatory Information

U.S. Federal Regulations	SARA 313 toxic chemical notification and release reporting: Ethylene Glycol Monobutyl Ether Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. All Components of this product are listed or exempt from listing on TSCA inventory.
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State Regulations	California prop. 65: No products were found.
WHMIS (Canada)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-2B: Material causing other toxic effects (TOXIC).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.