



## Safety Data Sheet

### HOU CHEM Gem Glass Cleaner

HMIS Ratings	
Health	1
Flammability	2
Reactivity	0
Protection	B

#### Section 1: Identification

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<b>Product Name:</b>	HOU CHEM Gem Glass Cleaner
<b>Product Use:</b>	Glass Cleaner
<b>Restrictions on Use:</b>	None known.
<b>Manufacturer:</b>	Blue Ribbon Products, Inc. 8188 Allison Avenue Indianapolis, IN 46268
<b>Phone Number:</b>	(317) 972-7970 * (888) 274-2266
<b>Emergency Phone:</b>	CHEMTREC 1-800-424-9300 For International Calls: (703) 527-3887

#### Section 2: Hazard Identification

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<b>Hazard Class:</b>	Flammable Liquid Category 4, Skin Irritant Category 3, Eye Irritant Category 2B.
<b>Signal Word(s):</b>	Warning
<b>Hazard Statement:</b>	Combustible liquid. Causes mild skin irritation. Causes eye irritation.
<b>Pictogram Classes:</b>	None.
<b>Precautionary Measures:</b>	Do not ingest, keep out of eyes, do not inhale. Keep away from any sources of ignition. No smoking. Wear proper protective equipment. Store tightly closed in well-ventilated place.
<b>Miscellaneous Hazards:</b>	Inhalation in very high doses may result in temporary CNS depression.

## Section 3: Composition/Information on Ingredients

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Chemical Name	CAS Number	Concentration (Wgt.%)
Isopropanol	67-63-0	1-5
2-Butoxyethanol	111-76-2	2-7
Non-hazardous and other ingredients below reportable levels	Proprietary	88-97

## Section 4: First Aid Measures

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<b>Skin Contact</b>	Wash with soap and water. If irritation persists, seek medical advice.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present/able. Continue rinsing. If eye irritation persists, get medical advice or attention.
<b>Inhalation</b>	Move person to fresh air. Seek medical attention if symptoms develop or persist
<b>Ingestion</b>	If the material is swallowed, get immediate medical advice or attention. Do not induce vomiting unless instructed to do so by medical personnel.

**Notes for Immediate Care / Physician** N/A

## Section 5: Fire Fighting Measures

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**Hazardous Combustion Products:**  
Carbon monoxide and carbon dioxide.

**Extinguishing Media:**  
Carbon dioxide, dry chemical, or water.

**General Fire Hazards:**  
Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

**Fire Fighting Equipment and Instructions:**  
Firefighters should wear full protective gear including self contained breathing apparatus.

## Section 6: Accidental Release Measures

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**Personal Protection/PPE:**  
Wear safety glasses or goggles to avoid eye contact.

**Emergency Procedures:**

Remove all sources of ignition.

**Containment Procedures:**

Remove all sources of ignition. Stop the flow of material, if this is without risk. Absorb with inert absorbent such as dry clay, sand, diatomaceous earth, commercial sorbents, or recover using pumps.

**Cleanup Procedures:**

Absorb spill with inert material. Shovel material into appropriate container for disposal.

## Section 7: Handling and Storage

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**Handling Procedures:**

Avoid prolonged or repeated skin contact with this material.

**Storage Procedures:**

Do not handle or store near an open flame, heat, or other sources of ignition. Keep the container tightly closed and in a well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

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Chemical	CAS Number	PEL-OSHA	Exposure Limits	
			TLV-ACGIH	Carcinogen
Isopropanol	67-63-0	400 ppm	400 ppm	No
2-Butoxyethanol	111-76-2	25 ppm	20 ppm TWA-TLV	No
Non-hazardous and other ingredients below reportable levels	Proprietary	N/A	N/A	N/A

**Engineering Controls:**

Local exhaust ventilation should be used.

**Personal Protective Equipment:****Eyes/Face:**

Wear safety glasses or goggles.

**Skin:**

Use impervious gloves.

**Respiratory:**

None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

**General:**

Eye wash fountain is recommended. Use good industrial hygiene practices in handling this material.

## Section 9: Physical and Chemical Properties

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<b>Appearance:</b>	Purple liquid
<b>Flammability Limits:</b>	Not available.
<b>Explosive Limits:</b>	Not applicable.
<b>Odor:</b>	Grape
<b>Odor Threshold:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>pH:</b>	Not available.
<b>Relative Density:</b>	0.99
<b>Melting Point:</b>	Not available.
<b>Solubility:</b>	Soluble in water.
<b>Initial Boiling Point/Boiling Range:</b>	Not available.
<b>Flash Point:</b>	87°C
<b>Autoignition Temperature:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Partition Coefficient (n-octanol/water):</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.

## Section 10: Stability and Reactivity

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### Reactivity:

May react with strong oxidizing agents (peroxides, chlorine, strong acids).

### Chemical Stability:

This is a stable material under normal conditions.

### Hazardous Decomposition:

None known.

### Hazardous Polymerization:

Will not occur.

### Incompatible Materials:

Strong oxidizing agents (peroxides, chlorine, strong acids).

### Conditions Leading to Hazard:

Allowing product to freeze, storage with strong oxidizing agents, storage in heat or by flame.

## Section 11: Toxicological Information

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**Acute Toxicity Estimate – Oral:** >5000 mg/kg

**Acute Toxicity Estimate – Dermal:** >5000 mg/kg

**Reproductive Toxicity/Germ Cell Mutagenicity:** No ingredients with positive in vivo tests

**Skin/Inhalation Sensitization:** This product is not expected to cause sensitization.

**Carcinogenicity:** No carcinogenic components.

## Section 12: Ecological Information

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Existing Structure Activity Relationship (SAR) and Experimental data on the components of this product indicate no Acute or Chronic Environmental categorization. Bioaccumulation and other routes of aquatic contamination have insufficient data to be considered, but are not expected to be contributory.

None of the components of this product are listed in the Montreal Protocol or its Amendments.

## Section 13: Disposal Concerns

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Dispose of waste material in accordance with Local, State, Federal, and Provincial Environmental Regulations.

## Section 14: Transport Information

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### US DOT HMR Information

**Exceptions:** Non-regulated substance if shipped in non-bulk container.

**Proper Shipping Name:** Combustible Liquid, N.O.S. (Isopropanol, 2-Butoxyethanol)

**Identification Number:** NA1993

**Packaging Group:** III

**Hazard Class:** Comb. Liq.

### International HMR Information

This substance is not classified as a hazardous material.

## Section 15: Regulatory Information

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### US Federal Regulations

**CERCLA/SARA – Section 313 – Emission Reporting**  
2-Butoxyethanol

### State Regulations

**California – Proposition 65 – Carcinogens List**  
None.

## Section 16: Other Information

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**Disclaimer:**

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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