



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>Glass &amp; Mirror Concentrate</b>	
<b>Other means of identification</b>		
<b>Product code</b>	CU-1124	
<b>Recommended use</b>	Window and glass cleaner.	
<b>Recommended restrictions</b>	None.	
<b>Manufacturer information</b>		
<b>Company name</b>	Chemical Universe, Inc.	
<b>Address</b>	1133 Saline St. North Kansas City, MO 64116	
<b>Telephone</b>	(816) 471-3602	
<b>Fax</b>	(816) 474-3302	
<b>Emergency phone number</b>	PERS	(800) 633-8253
	24-hour Emergency	(800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin Irritant	Category 2
	Eye Irritant	Category 2A
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not listed.	
<b>Label elements</b>		



<b>Signal word</b>	<b>WARNING</b>
<b>Hazard statement</b>	Causes skin irritation. Causes serious eye irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.
<b>Response</b>	<b>IF ON SKIN:</b> Wash with plenty water. Specific treatment (see Section 4 on the Safety Data Sheet) If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing before reuse. <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	No prescriptive instruction
<b>Disposal</b>	No prescriptive instruction
<b>Hazard(s) not otherwise classified (HNOC)</b>	None.
<b>Supplemental information</b>	None.



# SAFETY DATA SHEET

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
2-butoxyethanol	111-76-2	10-15
Aqua ammonia	1336-21-6	1-5
Other components below reportable levels		80-90

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air if irritated.
<b>Skin contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Dermatitis. Rash. May cause an allergic skin reaction.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.
<b>Methods and materials for containment and cleaning up</b>	Caution – spillages may be slippery.  Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.  Small spills: Wipe up with absorbent material (e.g. cloth, absorbent wipes). Clean surface thoroughly with water to remove residual contamination.



# SAFETY DATA SHEET

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into surface drainage paths and other areas not consistent with package labeling.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with eye. Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Do not store in extreme temperature conditions. (<32°F or > 120°F)

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-butoxyethanol	PEL	50 ppm
Ammonium hydroxide	PEL	18 mg/m <sup>3</sup>

#### US ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol	STEL	20 ppm
Ammonium hydroxide	TLV	18 mg/m <sup>3</sup>

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Species	Sampling Time
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.

**Appropriate engineering controls** Emergency eye wash stations and showers should be readily accessible.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Latex and nitrile rubber are industry-accepted barrier materials

**Other** None.

**Respiratory protection** Respiratory protection not required for prescribed use of this product

**Thermal hazards** None.

**General hygiene considerations** When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

## 9. Physical and chemical properties

### Appearance

<b>Physical State</b>	Liquid.
<b>Color</b>	Blue
<b>Odor</b>	Ammoniacal mild



# SAFETY DATA SHEET

<b>Odor threshold</b>	Not available.
<b>pH</b>	11-12
<b>Melting/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	>212°F (100°C)
<b>Flash point</b>	>225°F (107°C)
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability Limits</b>	
<b>Upper</b>	Not available.
<b>Lower</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity (water=1)</b>	1.00
<b>Solubility in water</b>	100 % Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Decomposes on heating.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	This product is stable and non-reactive under normal conditions of use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames can cause product to decompose.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, ammonia (gas).

## 11. Toxicological information

<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Expected to be a low inhalation hazard.
<b>Skin contact</b>	Prolonged skin contact causes irritation.
<b>Eye contact</b>	Repeated and/or prolonged eye contact causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dermatitis. Rash. May cause an allergic skin reaction.
<b>Acute toxicity</b>	Not established.

Product Glass & Mirror Concentrate (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub> / LC <sub>50</sub>
Acute	Oral, rat	>5,000 mg/kg estimated
Acute	Inhalation, rat	>1.340 mg/m <sup>3</sup>
*Estimates for product may be based on additional component data not shown		



# SAFETY DATA SHEET

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/ irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not classified.
<b>Skin sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not considered a carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not Listed.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity – single exposure</b>	Not classified.
<b>Specific target organ toxicity – repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not considered an aspiration hazard.

## 12. Ecological information

Ecotoxicity		
<b>Product</b>	Glass & Mirror Concentrate (CAS mixture)	
<b>Aquatic Receptor</b>	<b>Species</b>	<b>Test Threshold(s)</b>
Fish	Oncorhynchus mykiss	LC <sub>50</sub> (96-hr): 199 mg/L (estimated)
<i>Specific toxicity threshold cannot be derived as the potential effects are highly dependent upon the pH of the receiving water and its buffer capacity highly variable.</i>		
*Estimates for product may be based on additional component data not shown		

<b>Persistence and degradability</b>	Not available. Chemicals of this class are not expected to be persistent in an open, aerobic environment
<b>Bio-accumulative potential</b>	Potential to bioaccumulate is low.
<b>Mobility in soil</b>	Not available. Chemicals of these classes are expected to exhibit moderate to high mobility in saturated and semi-saturated soils
<b>Other adverse effects</b>	Not available.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of in accordance with local regulations.
<b>Local disposal regulations</b>	None.
<b>Waste from residues/unused product</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. As packaged, this product is not believed to meet criteria defining RCRA hazardous wastes when disposed. (40 CFR Part 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be rinsed with water and recycled.

## 14. Transport information

**DOT** Not regulated as dangerous goods.

## 15. Regulatory information

<b>US federal regulations</b>	
<b>SARA 302 Extremely hazardous substance</b>	Not listed.
<b>SARA 304 Emergency release notification</b>	Not listed.
<b>SARA 311/312 Hazard Categories</b>	
Immediate Hazard - Yes	



# SAFETY DATA SHEET

Delayed Hazard – No  
Fire Hazard – No  
Pressure Hazard – No  
Reactivity Hazard – No

**SARA 313 (TRI reporting)**

2-butoxyethanol (Glycol Ether Category)  
Aqua ammonia (CAS # 1336-21-6)

**California Proposition 65**

**California Safe Drinking Water and Toxic Enforcement Act of 1986**

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (1/2019)

## 16. Other information, including date of preparation or last revision

Issue date 12/14/2020

Revision date

Version # 1

HMIS® ratings Health: 1  
Flammability: 0  
Physical hazard: 0

NFPA ratings Health: 1  
Flammability: 0  
Instability: 0

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>



**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.

**Revision information**

First issue