



SAFETY DATA SHEET

1. Identification

Product Identifier	Glass and Hard Surface Cleaner
Other means of identification	
Product code	101-CLL
Recommended use	Glass and solid surface cleaner.
Recommended restrictions	Professional use only.
Manufacturer information	
Company name	Chemical Universe, Inc.
Address	1841 Vernon St. North Kansas City, MO 64116
Telephone	(816) 471-3602
FAX	(816) 474-3302
Emergency phone number	PERS 24-hour Emergency (800) 633-8253 (800) 633-8253

2. Hazard(s) Identification

Physical hazards	Flammable Liquids	Category 3
Health hazards	Eye irritation	Category 2A
	Skin irritation	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	None.	

Label elements



Signal word	DANGER
Hazard statement	Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/ eye protection/ face protection. Wash hands and face thoroughly after handling.
Response	IF ON SKIN: Wash with plenty of soap and water. For specific treatment: see section 4 on the Safety Data Sheet. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. IF SWALLOWED: Immediately call a POISON CENTER/doctor/medical professional. Do NOT induce vomiting. If vomiting occurs keep the victims head up to prevent stomach contents from entering the lungs
Storage	Store in a well-ventilated place. Keep cool. Store locked up.



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Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None.

Supplemental information None.

3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
2-propanol	67-63-0	15-20
2-butoxyethanol	111-76-2	15-20
Other components below reportable levels		60-70

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Only induce vomiting at the instruction of medical personnel.

Most important symptoms/effects, acute and delayed Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed Provide widespread support measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to the hospital. Keep victim under observation. Symptoms may be delayed.

General information 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

Suitable extinguishing media Water fog. Foam. Carbon dioxide (CO₂). Dry chemical powder, sand, or earth may be used for small fires only.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread a liquid-fueled fire.

Specific hazards arising from the chemical Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source or ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

Fire-fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Remove all sources of



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Methods and materials for containment and cleaning up

ignition. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources. Use only non-sparking tools. Take precautionary measures against static discharge. Keep combustibles away from spilled material.

Large spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small spills: Absorb with earth, sand, or other non-combustible material and transfer to container for later disposal. Clean surface thoroughly to remove residual contamination.

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

Environmental precautions

Avoid release to the open environment or into sewer systems without authorization. Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling

Do not manage, store or open near an open flame, sources of heat or sources of ignition. Do not smoke. Use explosion proof equipment and non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flame. Ground/bond container and equipment. Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

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-propanol	STEL	500 ppm
	TWA	400 ppm
2-butoxyethanol	PEL	50 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
2-propanol	STEL	400 ppm
	TWA	200 ppm
2-butoxyethanol	TWA	20 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Species	Sampling Time
2-propanol	40 mg/L	Acetone	Urine	End of shift at end of workweek.
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust



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ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	The use of gloves impervious to the specific material managed is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber.
Other	None.
Respiratory protection	In case of insufficient ventilation, wear suitable NIOSH-approved respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after managing the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance	
Physical State	Liquid
Color	Blue
Odor	Citrus
Odor threshold	Not available
pH	7-8.
Melting/freezing point	22.5°F (-5.5°C) estimated.
Initial boiling point and boiling range	210°F (99°C) estimated.
Flash point	94.5°F (34.7 °C) estimated
Evaporation rate	Not available
Flammability	Not available
Flammability Limits	
Upper	Not available
Lower	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity (water=1)	0.96
Solubility in water	Complete
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10. Stability and reactivity

Reactivity	This product is stable and non-reactive under normal conditions of use.
Chemical stability	Material is stable under normal conditions. Store in a cool dark place.
Possibility of hazardous reactions	Hazardous polymerization does not occur.



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Conditions to avoid Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Oxidizing agents, strong acids.

Hazardous decomposition products Carbon dioxide, carbon monoxide.

11. Toxicological information

Information on routes of exposure

Ingestion Expected to be low ingestion hazard.

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical, and toxicological characteristics Dermatitis. Rash.

Acute toxicity Not established.

Product Glass & Multi-Surface Cleaner (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀
Acute	<i>Dermal, rabbit</i>	> 8,760 mg/kg
Acute	<i>Oral, rat</i>	6,100 mg/kg estimated

*Estimates for product may be based on additional component data not shown

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/ irritation Causes serious eye irritation.

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not expected to be a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure Not classified.

Specific target organ toxicity – repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity		
Product Glass & Multi-Surface Cleaner (CAS mixture)		
Aquatic	Species	Test Results
Crustacea	Daphnia	EC ₅₀ (48 hr): 880 estimated
Fish	Oncorhynchus mykiss	LC ₅₀ (96 hr): 379 estimated

*Estimates for product may be based on additional component data not shown

Persistence and degradability No data available. Chemicals of this class are reported to be moderately degradable in a toxic environment

Bioaccumulative potential Potential to bioaccumulation is expected to be low. Highly water soluble



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Mobility in soil No data available. Chemicals of these classes are highly water soluble and will partition readily to water and weakly to particles in low-clay soil matrices. They are expected to exhibit moderate to high mobility in saturated and semi-saturated soils

Other adverse effects No other adverse environmental effects known (*i.e.*, *ozone depleting substance*, *tropospheric ozone precursor*, *greenhouse gas emission*, *endocrine disruptor*, or *other deleterious environmental effect*)

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations. As a flammable liquid, this product is prohibited from land disposal

Hazardous waste code The waste code should be assigned in discussion between the user, the producer, and the waste disposal company. As packaged, the product would be classified as an ignitable waste (D001) under provisions of 40 CFR part 261 Subpart C

Waste from residues/unused product Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (See: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

14. Transport information

USDOT

UN number UN1993

UN proper shipping name Flammable liquids, n.o.s. (Contains: Isopropanol)

Transport hazard class(es)

Class 3

Subsidiary risk -

Packaging group III

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Marine pollutant No

Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This product is not intended to be transported in bulk.

DOT Label/Placard





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15. Regulatory information

US federal regulations

SARA 302 Extremely hazardous substance Not listed.

SARA 304 Emergency release notification Not listed.

SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – Yes

Pressure Hazard – No

Reactivity Hazard – No

SARA 313 (TRI reporting) 2-butoxyethanol (Glycol ether category)

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 (12/2021)

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

Issue date 1/14/2015

Revision date 2/4/2022

Version # 4

HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 0

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

NFPA rating

Health: 2
Flammability: 2
Instability: 0





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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

General format update; General use instructions. Refine composition table, amend physical data; Text clarification amendments Sections 5,6,8,9 and 12. ; California Proposition 65 notice.