

1. Product and Company Identification

Product Code:	170485	
Product Name:	Crystal Clear RTU Glass Cleaner	
Company Name:	CleanSource 650 Brennan St. San Jose, CA 95131	Phone Number: (408)954-1234
Emergency Contact:	ChemTrec	(800)424-9300
Recommended Use:	Glass & Surface Cleaner	
Intended Use:	For sale to, use and storage by service persons only.	

2. Hazards Identification

Acute Toxicity: Oral, Category 4
Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word:	Warning
GHS Hazard Phrases:	Harmful if swallowed. Causes serious eye irritation.
GHS Precaution Phrases:	Wash hands thoroughly after handling. Keep out of reach of children.
GHS Response Phrases:	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
GHS Storage and Disposal Phrases:	Store in cool dry place at room temperature away from direct sunlight. Dispose of contents and container according to the local, city, state and federal regulations.
Potential Health Effects (Acute and Chronic):	
Inhalation:	Mild irritation effect.
Skin Contact:	Mild irritation effect.
Eye Contact:	Causes eye irritation. Causes redness and pain. Causes eye burns.
Ingestion:	Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
67-63-0	Isopropyl alcohol	Proprietary
111-76-2	Ethanol, 2-Butoxy-	Proprietary
7664-41-7	Ammonia	Proprietary

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

In Case of Skin Contact: In case of contact, flush skin with plenty of water.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

In Case of Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Immediately call a POISON CENTER or doctor/physician.

Signs and Symptoms Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: NE

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NE

Suitable Extinguishing Media: Use dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Do not ingest or inhale.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
67-63-0	Isopropyl alcohol	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
7664-41-7	Ammonia	PEL: 50 ppm	TLV: 25 ppm STEL: 35 ppm	No data.

Respiratory Equipment (Specify Type):	No special requirements under normal use conditions.
Eye Protection:	Safety glasses.
Protective Gloves:	No special requirements under normal use conditions.
Other Protective Clothing:	No special requirements under normal use conditions.
Engineering Controls (Ventilation etc.):	No special ventilation requirements. General room ventilation is adequate.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Blue color liquid with ammonia odor.	
Melting Point:	No data.	
Boiling Point:	No data.	
Autoignition Pt:	NE	
Flash Pt:	NE	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	1.000	
Density:	8.34 lbs/gal	
Vapor Pressure (vs. Air or mm Hg):	NE	
Vapor Density (vs. Air = 1):	NE	
Evaporation Rate:	NE	
Solubility in Water:	100 %	
Saturated Vapor Concentration:	NE	
Viscosity:	NP	
pH:	10 - 11	
Percent Volatile:	No data.	
VOC / Volume:	~ 25.0000 G/L	

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Light, ignition sources, Excess heat, Incompatible materials, Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Amines, Ammonia, ethylene oxide, isocyanates, acetaldehyde, chlorine, phosgene, Attacks some forms of plastics, rubbers, and coatings. aluminum at high temperatures. Aluminum, Iron oxides. Aluminum and Soft Metals. Copper, Silver/silver oxides, Cadmium/cadmium oxides. Alcohols, acids, Halogens, Aldehydes.
Hazardous Decomposition Or Byproducts:	Carbon monoxide, formed under fire conditions. nitrogen oxides (NOx).
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	<p>No data available.</p> <p>CAS# 111-76-2:</p> <p>Acute toxicity, LD50, Oral, Rat, 470.0 MG/KG.</p> <p>Results:</p> <p>Behavioral: Somnolence (general depressed activity).</p> <p>Behavioral: Muscle weakness.</p> <p>- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment Research, Toxicology Research Lab, Midland, MI 48640, Vol/p/yr: MSD-46,</p>
Carcinogenicity/Other Information:	<p>Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.</p> <p>Results:</p> <p>Behavioral: Ataxia.</p> <p>Nutritional and Gross Metabolic: Weight loss or decreased weight gain.</p> <p>- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 68,405, 1983</p> <p>CAS# 67-63-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 111-76-2:</p> <p>ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.</p> <p>California: Not listed.</p> <p>NTP: Not listed.</p> <p>IARC: Not listed. Carcinogenicity.</p> <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Carcinogenicity:	<p>NTP? No IARC Monographs? No OSHA Regulated? No</p>

12. Ecological Information

Results of PBT and vPvB assessment:	<p>No data available.</p> <p>CAS# 111-76-2:</p> <p>LC50, Brine Shrimp (<i>Artemia salina</i>), nauplii, 1000000. UG/L, 24 H, Mortality, Water temperature: 24.00 C C.</p> <p>Results:</p> <p>Morphological changes.</p> <p>- Brine Shrimp Bioassay and Seawater BOD of Petrochemicals, Price, K.S., G.T. Waggy, and R.A. Conway, 1974</p>
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13. Disposal Considerations

Waste Disposal Method:	<p>Dispose of contents and container according to the local, city, state and federal regulations.</p>
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14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-63-0	Isopropyl alcohol	No	No	Yes
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
7664-41-7	Ammonia	Yes 500 LB	Yes 100 LB	Yes

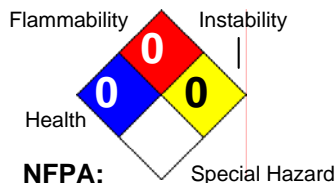
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
67-63-0	Isopropyl alcohol	CA PROP.65: No
111-76-2	Ethanol, 2-Butoxy-	CA PROP.65: No
7664-41-7	Ammonia	CA PROP.65: No

16. Other Information

Hazard Rating System:

HEALTH	0
FLAMMABILITY	0
PHYSICAL	0
PPE	A

HMIS:



Revision Date: 03/17/2015

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.