CLARITY GLASS CLEANER

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: CLARITY GLASS CLEANER
SDS Number: 891.333.7
Product Code: 891.333
Revision Date: 7/12/2021
Version: 1.0
Product Use: Glass Cleaner

Vendor Details:
Winzer Corporation
4060 E Plano Pkwy
Plano, TX 75074

Phone: 1-800-527-4126
Fax: 1-800-867-7714
Web: www.winzer.com
Emergency: CHEMTEL 1-800-255-3924 (US & Canada)

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Physical, Gases Under Pressure, Liquefied Gas

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:

Contains gas under pressure; may explode if heated

GHS Precautionary Statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Protect from sunlight. Store in a well-ventilated place.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
106-97-8	1-5%	Butane
111-76-2	1-5%	Ethylene glycol monobutyl ether
64-17-5	1-5%	Ethyl alcohol
74-98-6	1-5%	Propane

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. Give oxygen or artificail respiration if needed.

Skin Contact: Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. After 15 minutes, check for and remove any contact lenses. Continue to rinse. Get immediate medical

attention if irritation persists.

Ingestion: Ingestion is not a likely route of exposure. Get medical attention if you feel unwell.

5 FIRE FIGHTING MEASURES

Flash Point: Flash point at or above 200°F/93°C

Suitable Extinguishing Media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards in Case of Fire
Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes

Fire-Fighting Procedures
Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

Special Protective Actions
Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedure
Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

Recommended Equipment
Clean up with an absorbent material and place in closed containers for disposal.

Personal Precautions
Avoid breathing vapors. Ventilate area. Wear safety glasses and gloves.

Environmental Precautions
Stop spill/release if it can be done safely.

7 HANDLING AND STORAGE

Handling Precautions: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally. Use in a well ventilated place.

Storage Requirements: Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation should be sufficient to prevent inhalation of any vapors.

Personal Protective Equipment: HMIS PP, A | Safety Glasses
Eye Protection: Safety glasses with side shields should be used if indicated. Eye wash and safety showers in the workplace are recommended.
Skin Protection: Use solvent-resistant protective gloves for prolonged or repeated contact.
Respiratory Protection: In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Butane cas#:(106-97-8) [1-5%]

Components with workplace control parameters

TWA	800 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment Cardiac sensitization
TWA	800 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits Also see specific listing for Isobutane.

Ethylene glycol monobutyl ether cas#:(111-76-2) [1-5%]

Components with workplace control parameters

TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation
Confirmed animal carcinogen with unknown relevance to humans

TWA	5 ppm 24 mg/m3	USA. NIOSH Recommended Exposure Limits

Potential for dermal absorption

TWA	50 ppm 240 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Skin designation
The value in mg/m3 is approximate.

TWA	25 ppm 120 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Skin notation

Ethyl alcohol cas#:(64-17-5) [1-5%]

Components with workplace control parameters

TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation
Confirmed animal carcinogen with unknown relevance to humans

TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits

Propane cas#:(74-98-6) [1-5%]

Components with workplace control parameters

TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)

Central Nervous System impairment
Cardiac sensitization

TWA	1,000 ppm 1,800 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA	1,000 ppm 1,800 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA	1,000 ppm 1,800 mg/m3	USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	No data available		
Odor Threshold:	No data available	**Odor:**	No data available
Spec Grav./Density:	No data available	**Solubility:**	No data available
Viscosity:	No data available	**Freezing/Melting Pt.:**	No data available
Boiling Point:	No data available	**Flash Point:**	No data available
Partition Coefficient:	No data available	**Vapor Density:**	0.80 lb/gal
Vapor Pressure:	No data available	**VOC:**	9.99%

pH:	10	**Bulk Density:**	7.96 lb/gal
Evap. Rate:	Slower than ether	**Auto-Ignition Temp:**	No data available
Decomp Temp:	No data available	**UFL/LFL:**	No data available

10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	High temperatures
Materials to Avoid:	None known.
Hazardous Decomposition:	Hazardous decomposition products may include carbon dioxide, carbon monoxide, and other toxic fumes.
Hazardous Polymerization:	None known.

11 TOXICOLOGICAL INFORMATION

Butane cas#:(106-97-8) [1-5%]

Information on toxicological effects

Acute toxicity:
Oral LD50 no data available
Inhalation LC50 LC50 Inhalation - rat - 4 h - 658,000 mg/m3
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Central nervous system depression, giddiness, Shortness of breath, narcosis, Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite., Exposure can cause numbness, tingling, and weakness in extremities., Cyanosis, Pulmonary edema. Effects may be delayed., Abdominal pain, Nausea, Vomiting

Synergistic effects: no data available

Additional Information:

RTECS: EJ4200000

Ethylene glycol monobutyl ether cas#:(111-76-2) [1-5%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 470 mg/kg
LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
LD50 Dermal - rabbit - 220 mg/kg
LD50 Intraperitoneal - rat - 220 mg/kg
LD50 Intravenous - rat - 307 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Open irritation test

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)
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.
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.

Reproductive toxicity: no data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KJ8575000

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to
cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis
Stomach - Irregularities - Based on Human Evidence

Ethyl alcohol cas#:(64-17-5) [1-5%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration:Other changes.
LC50 Inhalation - rat - 10 h - 20000 ppm
Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
Carcinogenicity - mouse - Oral:

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors. Blood:Lymphomas including Hodgkins disease.
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.
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.
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.

Reproductive toxicity: no data available

Reproductive toxicity - Human - female - Oral:
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KQ6300000

Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Stomach - Irregularities - Based on Human Evidence

Propane cas#:(74-98-6) [1-5%]

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: TX2275000

Dizziness, Drowsiness, Unconsciousness

12 ECOLOGICAL INFORMATION

Toxicity

No data available

Classification of the substance or mixture

There is no ecological data available for this product.

Persistence and Degradability

No data available.

Bio-Accumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.
Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14 TRANSPORT INFORMATION

UN1950, Aerosols, non-flammable, (each not exceeding 1 L capacity), 2.2 (LTD QTY)

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[1-5%] Butane (106-97-8) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

[1-5%] Ethylene glycol monobutyl ether (111-76-2) HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

[1-5%] Ethyl alcohol (64-17-5) MASS, OSHAWAC, PA, TSCA, TXAIR

[1-5%] Propane (74-98-6) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

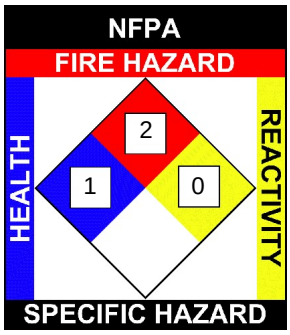
This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

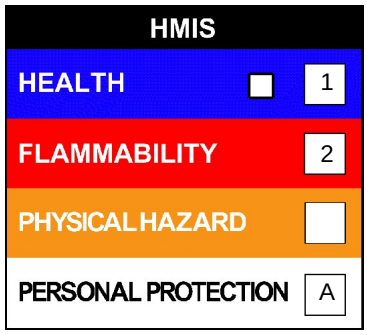
Regulatory Code Legend

MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
HAP = Hazardous Air Pollutants

16 OTHER INFORMATION

NFPA: Health = 1, Fire = 2, Reactivity = 0, Specific Hazard = n/a
HMIS III: Health = 1, Fire = 2, Physical Hazard =
HMIS PPE: A - Safety Glasses





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