

Glass Cleaner

Revision Date: 12/16/2024

SECTION 1: Identification**1.1 Product Identifier**

Trade Name **Glass Cleaner**
Product Number 20-00027

1.2 Relevant Identified Uses

Relevant Identified Uses Glass and Hard Surface Cleaner

1.3 Details of the Supplier of the Safety Data Sheet

Car Wash Technologies
322 19th St SW
Forest Lake, MN 55025
United States

Telephone: (651) 272-5459

1.4 Emergency Telephone Number

(651) 272-5459.

SECTION 2: Hazard(s) Identification**2.1 Classification of the Substance**

Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard Statement	Hazard Class	Category
H318	serious eye damage/eye irritation	1
H226	flammable liquid	3

Employ good industrial hygiene practice

2.2 Label Elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal Word **DANGER**

- Hazard Statements

H226 Flammable liquid and vapor.
H318 Causes serious eye damage.

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- Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/eye protection/face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial combustion plant.

2.3 Other Hazards

Hazards Not Otherwise Classified

Causes mild skin irritation (GHS category 3: irritant to skin).

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the Mixture

Name of Substance	CAS No	Wt%
Water	7732-18-5	≥ 90
2-Butoxyethanol	111-76-2	1 – < 5
Isopropanol	67-63-0	1 – < 5

SECTION 4: First-Aid Measures

4.1 Description of First-Aid Measures

General Notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following Inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following Skin Contact

Wash with plenty of soap and water.

Following Eye Contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

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Following Ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and effects are not known to date.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

5.2 Special Hazards Arising from the Substance or Mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

5.3 Fire-Fighting Measures

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel

Remove persons to safety.

For Emergency Responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental Precautions

Do not empty into drains, surface water or soil. If the product has entered a water course, sewer or soil, inform the responsible authority.

6.3 Methods and Material for Containment and Cleaning Up

Advice on How to Contain a Spill

Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Advice on How to Clean Up a Spill

Collect spillage. Ensure good ventilation and exhaustion. Place in appropriate containers for disposal.

6.4 Reference to Other Sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Measures to Prevent Fire as well as Aerosol and Dust Generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

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- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on General Occupational Hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Ventilation Requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limit Values (Workplace Exposure Limits)											
Country	Name of Agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	2-butoxyethanol	111-76-2	TLV®	20							ACGIH® 2024
US	2-butoxyethanol	111-76-2	REL	5 (10 h)	24 (10 h)					H	NIOSH REL
US	2-butoxyethanol	111-76-2	PEL	50	240					H	29 CFR 1910.1000
US	2-butoxyethanol (EGBE) (glycol monobutyl ether)	111-76-2	PEL (CA)	20	97					H	Cal/OSHA PEL
US	2-propanol	67-63-0	TLV®	200		400					ACGIH® 2024
US	isopropyl alcohol	67-63-0	PEL (CA)	400	980	500	1,225				Cal/OSHA PEL
US	isopropyl alcohol	67-63-0	REL	400 (10 h)	980 (10 h)	500	1,225				NIOSH REL
US	isopropyl alcohol	67-63-0	PEL	400	980						29 CFR 1910.1000

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

H absorbed through the skin

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period

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Notation

(unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Biological limit values						
Country	Name of Agent	Parameter	Notation	Identifier	Value	Source
US	2-butoxyethanol	Butoxyacetic acid (BAA)	hydr, crea	BEI®	200 mg/g	ACGIH® 2024
US	isopropanol	acetone		BEI®	40 mg/l	ACGIH® 2024

Notation

crea creatinine
hydr hydrolysis

8.2 Exposure Controls

Appropriate Engineering Controls

General ventilation.

Individual Protection Measures (Personal Protective Equipment)

Eye/Face Protection

Wear eye/face protection.

Skin Protection

- Hand Protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Body Protection

Wear suitable protective clothing.

- Other Protection Measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Environmental Exposure Controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance

Physical State	Liquid
Color	Blue
Foam Color	None

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Fragrance	None
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Other safety parameters

pH (value)	10.5
Melting Point/Freezing Point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash Point	122 °F
Evaporation rate	No Data Available
Flammability (solid, gas)	Flammable liquid in accordance with GHS criteria
Vapor pressure	No Data Available
Density	0.985 g/ml

Solubility(ies)

- Water solubility	Miscible in Any Proportion
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Viscosity

- Kinematic viscosity	No Data Available
Oxidizing Properties	None

9.2

Other Information

There Is No Additional Information

SECTION 10: Stability and Reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical Stability

See below "Conditions to avoid".

10.3 Possibility of Hazardous Reactions

No known hazardous reactions.

10.4 Conditions to Avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible Materials

Acids, Strong Oxidizers, Reducing Agents

10.6 Hazardous Decomposition Products

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Test data are not available for the complete mixture.

Classification Procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute Toxicity

Shall not be classified as acutely toxic.

Skin Corrosion/Irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or Skin Sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ Cell Mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of Substance	CAS No	Classification	Number
2-butoxyethanol	111-76-2	3	
Isopropanol	67-63-0	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive Toxicity

Shall not be classified as a reproductive toxicant.

Specific Target Organ Toxicity - Single Exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific Target Organ Toxicity - Repeated Exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration Hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological Information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and Degradability

No Data Available.

12.3 Bioaccumulative Potential

No Data Available.

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12.4 Mobility in Soil

No Data Available.

12.5 Other Adverse Effects

No Data Available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage Disposal-Relevant Information

Do not empty into drains. Avoid release to the environment.

Waste Treatment of Containers/Packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport Information

14.1 UN Number, Proper Shipping Name, Class and Packing Group

NOT DOT REGULATED for ground transportation ONLY in non-bulk packaging - per 49 CFR 173.150 (f).

14.2 Special precautions for user

There Is No Additional Information.

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations Specific for the Product in Question

National Regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of Substance	CAS No	Remarks	Effective date
Isopropanol	67-63-0	only persons who manufacture by the strong acid process are subject, supplier notification not required	12/31/1986

Clean Air Act

none of the ingredients are listed

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California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

Name of Substance	Name acc. to inventory	CAS No	Type of the toxicity	Date listed
Ethane-1,2-diol	ethylene glycol (ethanediol)	107-21-1	developmental	06/18/2015

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of Substance	CAS No	Functionality	Authoritative Lists
2-butoxyethanol	111-76-2	solvents	ATSDR Neurotoxicants OEHHA RELs
2-butoxyethanol			CA TACs
Isopropanol	67-63-0		OEHHA RELs

- Toxic or Hazardous Substance List (MA-TURA)

Name of Substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
2-butoxyethanol		1022			1.0 %
Isopropanol	67-63-0				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of Substance	CAS No	References	Remarks
2-butoxyethanol	111-76-2	A, O	skin
Isopropanol	67-63-0	A, N, O	

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

- Hazardous Substance List (NJ-RTK)

Name of Substance	CAS No	Remarks	Classifications
2-butoxyethanol	111-76-2		CA F2
2-butoxyethanol			
Isopropanol	67-63-0		F3

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Legend

CA Carcinogenic
F2 Flammable - Second Degree
F3 Flammable - Third Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
ETHANOL, 2-BUTOXY-	111-76-2	
GLYCOL ETHERS		E
2-PROPANOL	67-63-0	E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of Substance	CAS No	References
2-butoxyethanol	111-76-2	T
2-butoxyethanol	111-76-2	T
Isopropanol	67-63-0	T, F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

Industry or Sector Specific Available Guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating
Chronic	/
Health	2
Flammability	2
Physical hazard	0
Personal protection	-

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard
Flammability	2
Health	2
Instability	0
Special hazard	

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National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed (ACTIVE)

Legend

TSCA Toxic Substance Control Act

SECTION 16: Other Information, Including Date of Preparation or Last Revision

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Classification Procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based on the present state of our knowledge and does not constitute an assurance of product properties nor establishes contract legal rights. All data about health and safety are only for information. They should therefore not be construed as specifications. This SDS has been compiled and is solely intended for this product.