



SAFETY DATA SHEET

According to 29CFR 1910.1200

Glass Cleaner

Section 1: Identification

GHS Product Name: Glass Cleaner

Product Code: GC16

Other means of identification: Not applicable (N/A)

Chemical Name/Synonyms: Not applicable (N/A)

Product Type: Liquid

Optimal Solutions Products
145 City View Cir
Pickens, South Carolina 29672
864-557-3767
www.OSproduct.com
Emergency number: Chemtrec 1-800-262-8200

Section 2: Hazard(s) Identification

Hazard Classification:

FLAMMABLE LIQUIDS: Cat 3
SKIN CORROSION: Cat 2
EYE DAMAGE: Cat 2



Signal Word(s):

Warning

Hazard Statements:

H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H333: May be harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use
P210: Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No Smoking.
P233: Keep container tightly closed.
P235: Keep Cool.
P240: Ground/bond container and receiving equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing mist/ vapor spray.
P260: Do not breathe mist/vapors spray.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves, eye protection, and face protection.
P501: Dispose of the contents/containers according to the local, state and federal regulations.

Response Statements:

P301: IF SWALLOWED
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P302: IF ON SKIN
P350: Gently wash with plenty of soap and water



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Section 2: Hazard(s) Identification Continued

P332: IF SKIN irritation occurs
P313: Get medical advice/attention
P362: Take off contaminated clothing.
P364: Wash clothes before reuse.
P304: IF INHALED
P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342: IF experiencing respiratory symptoms
P311: Call a POISON CENTER or doctor/physician.
P305: IF IN EYES
P351: Rinse cautiously with water for several minutes.
P338: Remove contact lenses, if present and easy to do. Continue rinsing.
P337: IF eye irritation persists
P313: Get medical advice/attention
P370: In case of fire.
P378: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

STORAGE STATEMENTS:

P402: Store in a dry place.
P404: Store in a closed container.
P410: Protect from sunlight.

DISPOSAL STATEMENTS:

P501: Dispose of the contents/containers according to the local, state and federal regulations.

SUPPLEMENTAL LABEL ELEMENTS:

Wash thoroughly after handling. Avoid contact with eyes. May cause irritation to the eyes. In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, get medical attention.

CARCINOGENICITY:

Not listed by OSHA, IARC, OR NTP Check section 11

Section 3: Composition/ Information on Ingredients

Substance / Mixture: Mixture

Chemical Name	Synonym	CAS#	Conc.
Propan-2-ol		67-63-0	5-10%
2-butoxyethanol		111-76-2	1-5%

Section 4: First-Aid Measures

After skin contact:

Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

After eye contact:

Immediately flush eyes with plenty of water. If possible, remove contact lenses. Rinse for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if eye irritation continues.

After inhalation:

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

After swallowing:

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.



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Section 4: First-Aid Measures Continued

Most important symptoms/effects, acute and delayed -

Potential acute health effects:

Eye contact.	May cause slight transient irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhea.

Over-exposure signs/symptoms

Eye contact	pain or irritation watering redness
Inhalation	No specific data
Skin contact	Adverse symptoms may include the following Irritation Dryness Cracking
Ingestion	No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician.	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
See toxicological information (Section 11)	

Section 5: Fire-Fighting Measures

Suitable extinguishing agents:

Use an extinguished agent suitable for the surrounding fire

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Specific hazards arising from the chemical:

If in a fire or if heated, a pressure increase will occur, and the container may burst. Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide

Section 6: Accidental Release Measures

Personal precautions:

No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Measures for environmental protection:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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Section 6: Accidental Release Measures Continued

Measures for cleaning/collecting:

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Put on appropriate personal protective equipment (see Section 8). Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No Smoking. Keep container tightly closed. Keep Cool. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/ vapor spray. Do not breathe mist/vapors spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling

Conditions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8: Exposure Controls/Personal Protection



Control parameters

Occupational exposure limits

Ingredient name	CAS #	ACGIH	OSHA	California
Propan-2-ol	67-63-0	TWA: 8 hours TLV-TWA: 200 ppm [2001] TLV-STEL: 400 ppm [2001]	TWA: 8 hours PEL-TWA: 400 ppm (980 mg/m ³)	TWA: 8 hours PEL-TWA: 400 ppm (980 mg/m ³) PEL-STEL: 500 ppm (1225 mg/m ³)
2-butoxyethanol	111-76-2	TWA: 8 hours	TWA: 8 hours PEL-TWA: 50 ppm (240 mg/m ³)	TWA: 8 hours PEL-TWA: 20 ppm (97 mg/m ³)

Personal Protection

Hands	Chemical-resistant impervious gloves complying with an approved standard should be always worn when handling chemical products if a risk assessment indicates this is necessary.
Eyes and Face	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: splash goggles.

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Section 8: Exposure Controls/Personal Protection Continued

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental
Exposure Controls.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment
(Pictograms)



Section 9: Physical and Chemical Properties

Form:	Clear Liquid	Upper flammability or explosive limits:	Not available
Odor:	Alcohol	Lower flammability or explosive limits:	Not available
Odor Threshold:	N/A.	Vapor pressure:	Not available
pH:	6.83	Vapor density:	Not available
Specific Gravity:	Not available	Partition coefficient: n-octanol/water:	Not available
Freeze Point:	15° F	Auto Ignition Temp:	Not available
Boiling point:	Not available	Decomposition temperature:	Not available
Flash point:	Closed cup. Not available.	Viscosity:	Not available
Evaporation rate:	Not available	VOC (% wt.):	Not available
Flammability:	N/A	Percent Volatile:	Not available
Solubility:	Complete. Easily soluble in the following materials: cold water & hot water.		
Relative density:	1.03		

Section 10: Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials and reducing materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 11: Toxicological Information

Information on toxicological effects –

Carcinogenicity

Classification

<u>Product/ ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>EPA</u>	<u>NIOSH</u>	<u>NTP</u>	<u>OSHA</u>
propan-2-ol	A4	3				
2-butoxyethanol	A3	3				



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Section 11: Toxicological Information Continued

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation.

Potential acute health effects –

Eye contact. May cause slight transient irritation.
Inhalation No known significant effects or critical hazards.
Skin contact Defatting to the skin. May cause skin dryness and irritation.
Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact. pain or irritation
watering
redness
Inhalation No specific data.
Skin contact Adverse symptoms may include the following:
irritation
drying
cracking
Ingestion No specific data.

Acute toxicity estimates:

Route	ATE value
Oral	62463.1 mg/kg

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Not available.

Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Method: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff in contact with soil, waterways, drains and sewers.

Neutralizing Chemicals: Not available

General Disposal Considerations: Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

Section 14: Transport Information (non-mandatory)

PROPER SHIPPING NAME: Non-Regulated Chemical, Glass Cleaner

UN/NA NUMBER: Not Applicable

HAZARD CLASS: Not Applicable

PACKING GROUP:

EMERGENCY RESPONSE GUIDEBOOK:

PLACARD/LABELS REQUIRED:

Section 15: Regulatory Information (non-mandatory)

OSHA HAZARDOUS CHEMICAL: PROPAN-2-OL (67-63-0), 2-BUTOXYETHANOL (111-76-2)
SARA Section 302/304: N/A
SARA Section 311/312 Hazards: N/A
SARA Section 313: PROPAN-2-OL (67-63-0), 2-BUTOXYETHANOL (111-76-2)
Hazardous Air Pollutants: None



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Section 15: Regulatory Information (non-mandatory) Continued

National Toxicology Program (NTP): N/A

Toxic Substances Control Act: (TSCA) All components of this product comply with the inventory requirements administered by the governing country.

SARA 313:

<u>Product Name</u>	<u>CAS Number</u>	<u>%</u>
propan-2-01	67-63-0	5-10
2-butoxyethanol	111-76-2	1-5

State Regulations:

Massachusetts	ISOPROPYL ALCOHOL, 2-BUTOXYETHANOL
New York	ISOPROPYL ALCOHOL, 2-BUTOXYETHANOL
New Jersey	ISOPROPYL ALCOHOL, 2-BUTOXYETHANOL
Pennsylvania	2-PROPANOL, 2-BUTOXY
California Prop 65	

Canada:

Canadian Lists:

Canada NPRI

ISOPROPYL ALCOHOL

Canada Inventory.

All components are listed or exempted.

Canadian PCP/DIN Number:

N/A

International Regulations:

International lists.

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

U.S. Federal Regulations:

TSCA 12(b) one-time export: No products were found.
TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b): All components are listed or exempted.

EPA Registration Number:

N/A

Clean Air Act Section 112:

Not listed

SARA 302/304

Composition/information on ingredients: Not listed

Section 16: Other Information

HMIS: Health = 3; Flammability = 2; Reactivity = 0; Personal Protection Equipment = B

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

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