

# GLASS CLEANER CONCENTRATE

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Identification

Product form : Mixture  
Product name : GLASS CLEANER CONCENTRATE  
Product code : GT14601,05,55

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Glass Cleaner

#### 1.3. Details of the supplier of the safety data sheet

Gliptone Manufacturing Inc.  
1740 Julia Goldbach Avenue  
Ronkonkoma, NY 11779 - United States of America  
T 1-631-285-7250 - F 1-631-589-5487  
[www.gliptone.com](http://www.gliptone.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 International: 1-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Flam. Liq. 2 H225 - Highly flammable liquid and vapour  
STOT SE 3 H336 - May cause drowsiness or dizziness

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapor

H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a poison center/doctor/... if you feel unwell

P370+P378 - In case of fire: Use ... to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to ...

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
2-propanol	(CAS No) 67-63-0	30 - 60	Flam. Liq. 2, H225 STOT SE 3, H336
SURFACTANT GROUP	(CAS No) 68439-46-3	3 - 15	Acute Tox. 4 (Oral), H302
butyl glycoether	(CAS No) 111-76-2	2 - 7	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash off immediately and plentifully with water for at least 20 minutes. Call a physician immediately. Wash clothing before re-using.
- First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person. Drink two glasses of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May cause drowsiness or dizziness.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water fog.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapor. Under fire conditions closed containers may rupture or explode. Keep away from open flames, hot surfaces and sources of ignition. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
- Explosion hazard : Keep away from ignition sources (including static discharges).
- Reactivity : Highly flammable liquid and vapor.

#### 5.3. Advice for firefighters

- Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Combustion produces irritating gases. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorous oxide.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep public away.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Use chemically protective clothing.
- Emergency procedures : Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

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### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

For containment

: Eliminate ignition sources. Ensure adequate ventilation. Stop leak without risks if possible.

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information

: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed

: Harmful liquid. Flammable liquids.

Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from (strong) acids. Keep container closed when not in use.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with skin, eyes and clothing. Wash clothing before re-using.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep cool. Store locked up. Inspect frequently to identify any sign of warping or leak of the containers. No smoking.

Special rules on packaging

: Always keep in containers made of the same material as the supply container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-propanol (67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm (2-propanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	400 ppm (2-propanol; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (STEL) (mg/m³)	1225 mg/m³
OSHA	OSHA PEL (STEL) (ppm)	500 ppm

### butyl glycolether (111-76-2)

ACGIH	ACGIH TWA (ppm)	20 ppm (2-Butoxyethanol (EGBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
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### 8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Hand protection

: Impermeable protective gloves. Wear long sleeves. Use protective clothing.

Eye protection

: Safety glasses. Contact lenses should not be worn.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

: Avoid release to the environment.

Other information

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Dark Blue
Odor	: Sweet Floral, plus Alcohol odor
Odor threshold	: No data available
pH	: 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 85 °C
Flash point	: 18 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 0.9736
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

VOC content	: < 8 %
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapor.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Keep away from: oxidants, strong acids and strong bases. alkaline metals.

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Likely routes of exposure : Skin contact.; Eyes contact.; Inhalation; Ingestion.

Acute toxicity : Not classified

#### 2-propanol (67-63-0)

LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)

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### 2-propanol (67-63-0)

LC50 inhalation rat (mg/l) 73 mg/l/4h (Rat)

LC50 inhalation rat (ppm) 8000 ppm/4h

ATE US (oral) 5045.000 mg/kg body weight

ATE US (dermal) 12870.000 mg/kg body weight

ATE US (gases) 8000.000 ppmV/4h

ATE US (vapors) 73.000 mg/l/4h

ATE US (dust, mist) 73.000 mg/l/4h

### SURFACTANT GROUP (68439-46-3)

LD50 oral rat 1378 mg/kg (Rat)

LD50 dermal rabbit > 2000 mg/kg (Rabbit)

ATE US (oral) 1378.000 mg/kg body weight

### butyl glycolether (111-76-2)

LD50 dermal rat > 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

LD50 dermal rabbit 435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)

LC50 inhalation rat (mg/l) 2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)

LC50 inhalation rat (ppm) 450-486, Rat; Weight of evidence

ATE US (oral) 500.000 mg/kg body weight

ATE US (dermal) 435.000 mg/kg body weight

ATE US (gases) 4500.000 ppmV/4h

ATE US (vapors) 2.170 mg/l/4h

ATE US (dust, mist) 2.170 mg/l/4h

Skin corrosion/irritation : Not classified

pH: 8

Serious eye damage/irritation : Not classified

pH: 8

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

### 2-propanol (67-63-0)

IARC group 3 - Not Classifiable

### butyl glycolether (111-76-2)

IARC group 3 - Not Classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Other information : CNS depression.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Do not discharge into drains or the environment. Do not discharge into surface water.

### 2-propanol (67-63-0)

LC50 fish 2 9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)

EC50 Daphnia 2 13299 mg/l (EC50; Other; 48 h; Daphnia magna)

Threshold limit algae 1 > 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus)

### 12.2. Persistence and degradability

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### 2-propanol (67-63-0)

Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.40 g O <sub>2</sub> /g substance

### SURFACTANT GROUP (68439-46-3)

Persistence and degradability	Readily biodegradable in water.
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### butyl glycolether (111-76-2)

Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.71 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.20 g O <sub>2</sub> /g substance
ThOD	2.305 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.31

### 12.3. Bioaccumulative potential

#### 2-propanol (67-63-0)

Log Pow	0.05 (Weight of evidence approach; Other; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### SURFACTANT GROUP (68439-46-3)

Bioaccumulative potential	No bioaccumulation data available.
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#### butyl glycolether (111-76-2)

Log Pow	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

#### 2-propanol (67-63-0)

Surface tension	0.021 N/m (25 °C)
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#### butyl glycolether (111-76-2)

Surface tension	0.027 N/m (25 °C)
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### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Flammable vapors may accumulate in the container.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1219 Isopropanol, 3, II

UN-No.(DOT) : UN1219

Proper Shipping Name (DOT) : Isopropanol

Hazard Classes (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

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DOT Packaging Bulk (49 CFR 173.xx)	: 242
DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.

### TDG

No additional information available

### Transport by sea

UN-No. (IMDG)	: 1219
Proper Shipping Name (IMDG)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger

### Air transport

UN-No.(IATA)	: 1219
Proper Shipping Name (IATA)	: ISOPROPANOL
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2-propanol	CAS No 67-63-0	30 - 60%
<b>2-propanol (67-63-0)</b>		
Listed on SARA Section 313 (Specific toxic chemical listings)		
<b>SURFACTANT GROUP (68439-46-3)</b>		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).	

### 15.2. International regulations

#### CANADA

During the transition period (June 2015-June 2017), Canadian regulation requires that the supplier must provide a document that conforms to either *Controlled Products Regulations* (WHMIS 1988) or HPR (WHMIS 2015), and not a combination of both. This document conforms to the post June 2017 HPR (WHMIS 2015) for a specific controlled or hazardous product. The classification, label and (material) SDS fully complies with the specific regulation chosen by the supplier.

#### EU-Regulations

No additional information available

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### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### 2-propanol (67-63-0)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### butyl glycolether (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

NFPA health hazard

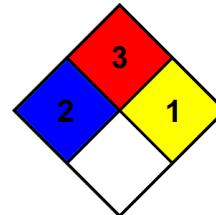
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F, as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

### Legend:

ACGIH: American Conference of Governmental Industrial Hygienists  
NIOSH: National Institute of Occupational Safety and Health  
CAS: Chemical Abstract Services  
DOT: Department of Transportation  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
N/Av: not available  
OSHA: Occupational Safety and Health Administration  
SARA: Superfund Amendments & Reauthorization Act

CFR: Code of Federal Regulations  
EPA: Environmental Protection Agency  
N/Ap: not applicable  
NFPA: National Fire Protection Association  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TSCA: Toxic Substance Control Act  
TLV: Threshold Limit Values

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*