



BIO-BASED GLASS CLEANER

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 04/15/2015 Revision date: n/a Supersedes: n/a Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : BIO-BASED GLASS CLEANER
Product code : R378
NSN : 7930-01-326-8110 (16 oz)
7930-00-901-2088 (1 Gal)
Unit of issue : 16 oz = 12/ Case; 1 Gal = 6/Case
GSA Contract# : GS-07F-P0060
Cage# : 1A862

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

Use of the substance/mixture : Glass and window cleaner (window polish)

1.3. Details of the supplier of the safety data sheet

The Lighthouse of Houston
3530 W. Dallas St.
Houston, Tx 77019
Tel: 713-527-9561
www.houstonlighthouse.org

1.4. Emergency telephone number

Emergency number : CHEM-TEL: 1 800 255-3924

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	GHS-US classification
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS No) 68515-73-1	< 1	Eye Dam. 1, H318
2-Butoxyethanol	(CAS No) 111-76-2	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	(CAS No) 110615-47-9	< 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318

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 symptoms persist call a doctor.
- First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately and thoroughly. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Never give anything by mouth to an unconscious person.

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

No additional information available

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 : Not flammable. Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : None known

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Intense heat may cause container to burst.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : No data available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8 : Exposure-controls/personal protection.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Stop leak if safe to do so. Dilute with plenty of water.
- Other information : Dispose of materials or solid residues at an authorized site. Slipping hazards.

6.4. Reference to other sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure general ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. 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.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in well-ventilated place. Keep container tightly closed.
- Incompatible materials : Strong oxidizing agent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Butoxyethanol (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm

8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the workstation.
- Personal protective equipment : Protective goggles. Gloves.



- Hand protection : Protective gloves. Neoprene. Nitrile. Rubber.
- Eye protection : Safety glasses.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Environmental exposure controls : No additional information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Thin and clear
- Colour : Colourless to light yellow
- Odour : Mild odour
- Odour threshold : No data available
- pH : 8.3
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 210 °F (99 °C)
- Flash point : Not applicable
- Relevant evaporation rate (butyl acetate=1) : 0.14
- Auto-ignition temperature : Not applicable
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : 0.49 PSI at 100 °F (37.7 °C)
- Relative vapour density at 20 °C : No data available
- Relative density : 1.002 (water=1) at 60 °F (15.6 °C)

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Solubility	: Completely soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable
Oxidising properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong oxidizing agent.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

Strong oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
(Based on available data, the classification criteria are not met.)

2-Butoxyethanol (111-76-2)	
LD50 oral rat	470 mg/kg
LD50 dermal rabbit	99 mg/kg
LC50 inhalation rat (ppm)	450 ppm/4h
ATE US (oral)	470.000 mg/kg bodyweight
ATE US (dermal)	1100.000 mg/kg bodyweight
ATE US (gases)	450.000 ppmv/4h
ATE US (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 8.3

Serious eye damage/irritation : Not classified
pH: 8.3

Respiratory or skin sensitisation : Not classified
(Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met.)

2-Butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

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- Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met.)
- Specific target organ toxicity (single exposure) : Not classified
(Based on available data, the classification criteria are not met.)
- Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met.)
- Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met.)
- Symptoms/injuries after skin contact : Irritation.
- Symptoms/injuries after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2-Butoxyethanol (111-76-2)	
LC50 fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2-Butoxyethanol (111-76-2)	
Log Pow	0.81 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

- Effect on ozone layer : No additional information available
- Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Additional information : Non-hazardous waste.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

- Other information : No supplementary information available.

ADR

No additional information available

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Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Butoxyethanol (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

Listed on the Canadian DSL (Domestic Substances List)

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9)

Listed on the Canadian DSL (Domestic Substances List)

2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class B Division 3 - Combustible Liquid
Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

Listed on the EU NLP (No Longer Polymers) inventory

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No information available.

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No information available.

15.2.2. National regulations

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
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2-Butoxyethanol (111-76-2)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

SECTION 16: Other information

Revision date : 03/24/2015

Full text of H-phrases:

-----	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
-----	Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
-----	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
-----	Eye Dam. 1	Serious eye damage/eye irritation, Category 1
-----	Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
-----	Skin Irrit. 2	Skin corrosion/irritation Category 2
-----	H302	Harmful if swallowed
-----	H312	Harmful in contact with skin
-----	H315	Causes skin irritation
-----	H318	Causes serious eye damage
-----	H319	Causes serious eye irritation
-----	H332	Harmful if inhaled

The information presented herein is believed to be correct but is not purported to be all inclusive and shall be used only as a guide. AMSPEC Chemical shall not be held liable for any damage resulting from handling or from contact with the above product.