



Safety Data Sheet
Glass & Hard Surface Cleaner (Concentrate)
SDS Version Date: 03/31/2015

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity / Alternate Names Glass & Hard Surface Cleaner (Concentrate)

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

Intended use Glass and Non-Porous Surface Cleaner
Application Method SDS reflects product as shipped. Product as used in diluted form is non hazardous.

1.3. Details of the supplier of the safety data sheet

Company Name Big 3 Packaging, LLC
4201 Torresdale Avenue Philadelphia, PA 19124

Emergency

24 hour Emergency Telephone No. 800-535-5053
Customer Service: Big 3 Packaging, LLC 215-743-4201

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2;H315 Causes skin irritation.
Eye Irrit. 2;H319 Causes serious eye irritation.

Classification according to 67/548/EEC or 1999/45/EC.

Xi Irritant.
R36/38 Irritating to eyes and skin.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

According to Regulation (EC) No 1272/2008



Warning

H315 Causes skin irritation.
H319 Causes serious eye irritation.



Safety Data Sheet

Glass & Hard Surface Cleaner (Concentrate)

SDS Version Date: 03/31/2015

[Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321 Specific treatment (see information on this label).

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

[Storage]: No CLP storage statements

[Disposal]: No CLP disposal statements

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

3. Composition/information on ingredients

If the product contains substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC, or have occupational exposure limits detailed in EH40, these substances are listed below.

Ingredient/Chemical Designations	Weight %	67/548/EEC Classification*	EC No. 1272/2008 Classification*	Notes
Proprietary Surfactant CAS Number: Proprietary EC No. Index No.:	25 - 50	R36	Eye Irrit. 2;H319	[1]
2-methylpentane-2,4-diol CAS Number: 0000107-41-5 EC No. 203-489-0 Index No.: 603-053-00-3	10 - 25	Xi;R36/38	Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1][2]
Window Glass Cleaner Fragrance CAS Number: Proprietary EC No. Index No.:	1.0 - 10		Acute Tox. 3;H301 Combustible Liquid;H227 Eye Irrit. 2;H319	[1]
tetrahydrofurfuryl alcohol CAS Number: 0000097-99-4 EC No. 202-625-6 Index No.: 603-061-00-7	1.0 - 10	R61 R62 R36	Eye Irrit. 2;H319	[1]

[^]CLP 31 Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.



Safety Data Sheet
Glass & Hard Surface Cleaner (Concentrate)
SDS Version Date: 03/31/2015

4. First aid measures

4.1. Description of first aid measures

General	SDS reflects product as shipped. Product as used in diluted form is non hazardous
Inhalation	Remove to fresh air, seek medical attention if symptoms persist.
Eyes	Irrigate copiously with clean water, holding the eyelids apart and seek medical attention if symptoms persist.
Skin	Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Have victim sip water if awake. Contact a physician immediately. Do not induce vomiting.

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

Overview	No specific symptom data available. See section 2 for further details.
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water..

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Rinse to local sanitary sewer.



Safety Data Sheet
Glass & Hard Surface Cleaner (Concentrate)
SDS Version Date: 03/31/2015

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store between 40F and 140F

Incompatible materials: Oxidizers or Reducing Agents

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

CAS No.	Ingredient	Exposure	
		Source	Value
0000107-41-5	2-methylpentane-2,4-diol	OSHA	No Established Limit
		ACGIH	Ceiling: 25 ppm
		NIOSH	C 25 ppm (125 mg/m3)
		Supplier	No Established Limit

This product contains no known or suspected carcinogens (as listed by OSHA, NTP, and IARC), and is not believed to be carcinogenic.

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Avoid eye contact.

Skin

Keep skin contact with concentrate to a minimum.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:



Safety Data Sheet
Glass & Hard Surface Cleaner (Concentrate)
SDS Version Date: 03/31/2015

9. Physical and chemical properties

Appearance	Clear Dark Blue Liquid
Odor	Pleasant
Odor threshold	Not Measured
pH	8.5 ± 0.5
Melting point / freezing point	Not Established
Initial boiling point and boiling range	Not Established
Flash Point	> 210 F
Evaporation rate (Ether = 1)	Slower than ethyl ether
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Established Upper Explosive Limit: Not Established
Vapor pressure (Pa)	Not Established
Vapor Density	Heavier than air
Specific Gravity	0.99 (on dilution ≈ 1.0)
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Established
Decomposition temperature	Not Established
Viscosity (cSt)	Not Established
Percent Volatiles (by weight)	20+ (on dilution 99+)

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep out of heat > 140F and cold < 30F.

10.5. Incompatible materials

Oxidizers or Reducing Agents

10.6. Hazardous decomposition products

Oxides of Carbon



Safety Data Sheet

Glass & Hard Surface Cleaner (Concentrate)

SDS Version Date: 03/31/2015

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Proprietary Surfactant - (Proprietary)	No data available	No data available	No data available	No data available	No data available
2-methylpentane-2,4-diol - (107-41-5)	3,700.00, Rat - Category: 5	7,892.00, Rabbit - Category: NA	No data available	No data available	No data available
Window Glass Cleaner Fragrance - (Proprietary)	No data available	No data available	No data available	No data available	No data available
tetrahydrofurfuryl alcohol - (97-99-4)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Proprietary Surfactant - (Proprietary)	Not Available	Not Available	Not Available
2-methylpentane-2,4-diol - (107-41-5)	10,000, Lep. macrochirus	2,800, Cero. reticulata	Not Available
Window Glass Cleaner Fragrance - (Proprietary)	Not Available	Not Available	Not Available
tetrahydrofurfuryl alcohol - (97-99-4)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured



Safety Data Sheet

Glass & Hard Surface Cleaner (Concentrate)

SDS Version Date: 03/31/2015

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

	DOT	IMO/IMDG	ICAO/IATA
14.1. UN number	Not Applicable	Not Applicable	Not Applicable
14.2. UN proper ship. name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: N/A DOT Label: ---	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user	No further information		
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable		

15. Regulatory information

EU Legislation

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

EC/648/2004: For professional or industrial use only, not for sale to the general public.

National Legislation None noted.



Safety Data Sheet
Glass & Hard Surface Cleaner (Concentrate)
SDS Version Date: 03/31/2015

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H227 Combustible liquid.

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360Df May damage the unborn child. Suspected of damaging fertility.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R61 May cause harm to the unborn child.

R62 Possible risk of impaired fertility.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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