

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING****1.1 Product Identifier**

Material name : See Thru Glass Cleaner
Product code :

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

Product use : Cleaning solution

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Product Brokers Ltd
Unit 36 Greenfield Business Park
Bagillt
CH8 7HJ
Tel. : 0161 643 0260

Email (for SDSs) : r.murie@productbrokers.co.uk

1.4 Emergency tel. no. : 0161 643 0260 (Office hours)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

According to Regulation (EC) No. 1272/2008 as amended by GB Regulation S.I.2019/720 and S.I.2020/1567:

Physical and Chemical Hazards	Flam.Liq.3; H226
Human health	Eye Irrit.2; H319
Environment	Not classified

2.2 Label elements

Signal word: Warning



Pictograms:

Hazard statements: H226 Flammable liquid and vapour
H319 Causes serious eye irritation

Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards: No data available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Index No./ Reg. No	Classification	Content
PROPAN-2-OL	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam.Liq.2; H225 Eye Irrit. 2; H319 STOT SE3; H336	5-10%
2-BUTOXYETHANOL Syn. BUTYL GLYCOL	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Ac.Tox.4; H302 Sk.Irrit.2; H315 Eye Irrit. 2; H319 Ac.Tox.3; H331	1-5%

Substance classifications are taken from the GB Mandatory Classification and Labelling (MCL) list, or if absent, from supplier's information.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash skin thoroughly with soap and warm water. Dry skin and apply replenishing cream. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek immediate medical advice.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: No undue effects in normal circumstances.

4.2 Most important symptoms and effects, both acute and delayed: Eye contact: May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, alcohol resistant foam, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

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Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers.
Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage. Wash contaminated clothing before reuse.

6.2 Environmental precautions

Prevent product from entering drains. If product enters waterways, inform relevant authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Chemical name	8hr TWA	15min STEL	Reference
Propan-2-ol	999 mg/m ³ /400 ppm	1250 mg/m ³ /500 ppm	UK EH40/2005
2-Butoxyethanol	123 mg/m ³ /25 ppm	246 mg/m ³ /50ppm	UK EH40/2005 (Sk, BMGV)

DNEL:

DNEL (workers)	Propan-2-ol	2-Butoxyethanol
Chronic systemic effects (dermal)	888 mg/kg bw/day	No hazard identified
Chronic systemic effects (inhalation)	500 mg/m ³	98 mg/m ³

DNEL (consumers)	Propan-2-ol	2-Butoxyethanol
Chronic systemic effects (dermal)	319 mg/kg bw/day	No hazard identified
Chronic systemic effects (inhalation)	89 mg/m ³	59 mg/m ³
Chronic systemic effects (oral)	26 mg/kg bw/day	6.3 mg/kg bw/day

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PNEC:

Environment	2-Butoxyethanol
Aquatic compartment	
Fresh water	8.8 mg/L
Marine water	880 µg/L
Water-intermittent (sporadic) release	26.4 mg/L
Dry Sediment – fresh water	34.6 mg/kg
Dry Sediment – marine water	3.46 mg/kg
Terrestrial compartment	
Dry soil	2.33 mg/kg
Sewage treatment plant	463 mg/L

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If in doubt, suitable respiratory protection should be worn.

Personal protective equipment

Respiratory protection: Unlikely to be necessary in normal circumstances.

Hand protection: Wear chemically resistant gloves such as nitrile rubber approved to standard EN 374; material thickness 0.5mm; break through time \geq 8 hours. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.

Eye protection: Chemical splash goggles of EN 166 standard if eye contact is reasonably probable.

Skin and body protection: Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes. Use PPE that is chemically resistant to the product and prevents skin contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the workday. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Colourless liquid
Odour	Mild solvent
Odour Threshold	No data available
Flammability (solids; gas)	Not applicable
Flash point	29-41°C (estimated from literature)
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not explosive
Thermal decomposition	>200°C
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Soluble

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Solubility in other solvents	Not determined.
pH	~7.0-8.0
Melting point/range	No data available
Boiling point/range	No data available
Specific gravity	~0.97 @ 20°C
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	Not applicable for mixtures
Viscosity (kinematic)	Non-viscous
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	Heat. Hot surfaces.
10.5 Incompatible materials	Strong acids. Strong oxidising agents.
10.6 Hazardous decomposition products	Toxic and irritating fumes may be released; oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The mixture as a whole has not been tested for toxicological effects. Toxicological data on individual components is listed below.

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Propan-2-ol	5840 mg/kg (Rat)	25 mg/L (Rat)	13900 mg/kg (Rabbit)
2-butoxyethanol	1300 mg/kg (Rat)	No adverse effect	No adverse effect

Acute toxicity:	Based on available data the classification criteria are not met.
Skin corrosion/irritation:	Based on available data the classification criteria are not met.
Serious eye damage/eye irritation:	The mixture is classified as Eye Irrit.2, H319: Causes serious eye irritation.
Respiratory or skin sensitisation:	Based on available data the classification criteria are not met.
Repeated dose toxicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Mutagenicity:	Based on available data the classification criteria are not met.
Toxicity for reproduction:	Based on available data the classification criteria are not met.
Specific target organ toxicity (STOT):	Based on available data the classification criteria are not met.
Aspiration hazard:	Based on available data the classification criteria are not met.
Further information	No data available.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity: Based on available data the classification criteria are not met.

The mixture as a whole has not been tested for ecological effects. Ecological data on individual components is listed below.

Chemical name	Species	Test	Value
Propan-2-ol	Daphnia	LC50 24h	10000 mg/l
	Fish	LC50 96h	9640 mg/l
	Algae	NOEC 7d	1800 mg/l
2-butoxyethanol	Daphnia	EC50 48h	881 mg/l
	Rainbow trout	LC50 96h	1,474 mg/l
	Algae	EC50 72h	623 mg/l

12.2 Persistence and degradability Readily biodegradable.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil Soluble in water.

12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.

12.6 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations. Do not dispose of waste into sewer. Contact licensed waste disposal company. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

14.1 UN number ADR/RID/ADN; IMDG; ICAO 1993

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S
(Propan-2-ol and 2-butoxyethanol solution)

14.3 Transport hazard class(es) ADR/RID/ADN Class 3



Transport labels

14.4 Packing Group ADR/RID/ADN; IMDG; ICAO III

14.5 Environment hazards Marine Pollutant No

14.6 Special precautions for user EMS F-E, S-E
Tunnel restriction code (D/E)

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

GB MCL (Mandatory Classification and Labelling).

Statutory Instruments

S.I 2009 No. 716: The Chemicals (Hazard information and Packaging for Supply) Regulations 2009.

S.I. 2019 No. 758: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019.

S.I. 2019 No. 720, S.I. 2020 No. 1567 and S.I. 2020 No. 1577: The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with the requirements of S.I. 2019 No. 758: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 and related regulations.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008 as amended by GB Regulation S.I.2019/720 and S.I.2020/1567:

Physical hazards: On basis of test data/Expert judgement.
Health hazards: Calculation method.
Environmental hazards: Not classified.

Full text of H-statements referred to under sections 2 and 3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society).
STOT: Single Target Organ Toxicity
TWA: Time-weighted average.
STEL: Short-term exposure limit.
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative, Toxic.
vPvB: very Persistent and very Bioaccumulative.
EC50: Effective Concentration, 50 percent.
LC50: Lethal Concentration, 50 percent.
LD50: Lethal Dose, 50 percent.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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