



**SAFETY DATA SHEET**  
according to Regulation (EU) 2015/830

**PHS Glass & Stainless Steel Cleaner**

Revision: 1  
Revision date: 28/04/2020

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

**1.1 Product identifier**

**Product name** PHS Glass & Stainless Steel Cleaner

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

**Product Use** [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);

**1.3 Details of the supplier of the safety data sheet**

**Company Address** Personnel Hygiene Services Ltd  
Block B, Western Industrial Estate, Caerphilly  
CF83 1XH  
United Kingdom  
**Web** [www.phsdirect.co.uk](http://www.phsdirect.co.uk)  
**Telephone** 02920 809098  
**Email:** [www.phsdirect.co.uk/contact-us](mailto:www.phsdirect.co.uk/contact-us)

**1.4 Emergency telephone number**

**Emergency telephone number** 02920 809098  
Ireland: National Poisons Centre, Beaumont Hospital, Dublin 9  
Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)  
Tel: 01 809 2566 (health care professionals)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**2.1.2 Classification - EC 1272/2008** Not classified as hazardous

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**EC 1272/2008**

Chemical name	Index No.	CAS No.	EC No.	REACH registration Number	Conc (%w/w)	Classification
Ethylene glycol monobutyl ether (2-Butoxyethanol)	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1-10%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	1-10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Inhalation</b>	Remove casualty from exposure ensuring one's own safety whilst doing so.
<b>Eye contact</b>	Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	Wash with water. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

<b>Inhalation</b>	May cause irritation to respiratory system.
<b>Eye contact</b>	No irritation expected.
<b>Skin contact</b>	No irritation expected.

Ingestion	Unlikely to be harmful unless excessive amount ingested.
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**4.3 Indication of any immediate medical attention and special treatment needed**

	No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.
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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

	Carbon dioxide (CO2). Water jet. For large fires: Alcohol resistant foam. Water jet.
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**5.2 Special hazards arising from the substance or mixture**

	No special hazards known.
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**5.3 Advice for firefighters**

	Wear suitable respiratory equipment when necessary.
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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

	Not normally required.
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**6.2 Environmental precautions**

	Do not allow product to enter drains. Dilute with water.
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**6.3 Methods and material for containment and cleaning up**

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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**6.4 Reference to other sections**

	For personal protective equipment see subsection 8.2. For disposal considerations see section 13.
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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.
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**7.2 Conditions for safe storage, including any incompatibilities**

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. For incompatibilities refer to section 10.4.
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**7.3 Specific end use(s)**

	No specific advice for end use available.
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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**8.1.1 Exposure Limit Values - UK**

Ethylene glycol monobutyl ether (2-Butoxyethanol)	WEL 8-hr limit ppm: 25
	WEL 8-hr limit mg/m3: 123
	WEL 15 min limit ppm: 50
	WEL 15 min limit mg/m3: 246
Isopropanol (Propan-2-ol)	WEL 8-hr limit ppm: 400
	WEL 8-hr limit mg/m3: 999
	WEL 15 min limit ppm: 500
	WEL 15 min limit mg/m3: 1250

**8.1.1 Occupational Exposure Limits Values (OELVs) - Ireland**

Ethylene glycol monobutyl ether (2-Butoxyethanol)	Occupational Exposure Limit Value (8-hour reference period)	20 ppm 98 mg/m3
	Occupational Exposure Limit Value (15-minute reference period)	50 ppm 246 mg/m3
Isopropanol (Propan-2-ol)	Occupational Exposure Limit Value (8-hour reference period)	200 ppm
	Occupational Exposure Limit Value (15-minute reference period)	400 ppm

DNEL: Derived no-effect level.


Exposure Pattern - Workers

<b>Isopropanol (Propan-2-ol)</b>	Long-term - inhalation - Systemic effects	500 mg/m <sup>3</sup>
	Long-term - dermal - Systemic effects	888 mg/kg

#### Exposure Pattern - General population

<b>Isopropanol (Propan-2-ol)</b>	Long-term - inhalation - Systemic effects	80 mg/m <sup>3</sup>
	Long-term - dermal - Systemic effects	319 mg/kg
	Long-term - oral - Systemic effects	26 mg/kg

#### 8.2 Exposure controls

<b>8.2.1 Appropriate engineering controls</b> <b>8.2.2 Individual protection measures</b> <b>Eye / face protection</b> <b>Skin protection -</b> <b>Hand protection</b> <b>Respiratory protection</b>	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Wash hands after handling the product.
	Ensure adequate ventilation of the working area.
	Adopt best Manual Handling considerations when handling, carrying and dispensing.
	Not normally required. In case of splashing, wear: Safety glasses. (EN166)
	Wash hands after handling the product. For prolonged contact protection for the skin may be necessary. (EN374)
Not normally required. Do not breathe gas/fumes/vapour/spray.	

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid
<b>Colour</b>	Green
<b>Odour</b>	Characteristic
<b>pH</b>	7.5
<b>Melting point</b>	Not determined
<b>Freezing Point</b>	Not determined
<b>Initial boiling point</b>	Not determined
<b>Flash point</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable to liquids
<b>Fat Solubility</b>	Not determined
<b>Partition coefficient</b>	Not determined
<b>Autoignition temperature</b>	Not determined
<b>Viscosity</b>	<100 cp @20°C
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not oxidising
<b>Solubility</b>	Soluble in water
<b>Vapour pressure</b>	Not determined

#### 9.2 Other information

<b>Conductivity</b>	Not determined
<b>Surface tension</b>	Not determined
<b>Specific gravity</b>	1.00 g/cm <sup>3</sup>

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

	No reactivity hazards known under normal storage and use conditions.
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#### 10.2 Chemical stability

	Stable under normal conditions.
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#### 10.3 Possibility of hazardous reactions

	No other adverse effects known.
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#### 10.4 Conditions to avoid

	None.
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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

<b>Skin corrosion/irritation</b>	No irritation expected.
<b>Germ cell mutagenicity</b>	No mutagenic effects reported.
<b>Carcinogenicity</b>	No carcinogenic effects reported.
<b>Reproductive toxicity</b>	No observed effect level.

#### 11.1.4 Toxicological Information

Ethylene glycol monobutyl ether (2-Butoxyethanol)	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50 NDA
	Oral Rat LD50: 1746 mg/kg	Oral Mouse LD50: NDA
	Dermal Rabbit LD50: NDA	Dermal Guinea Pig LD50 > 2000 mg/kg
Isopropanol (Propan-2-ol)	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50 NDA
	Oral Rat LD50: NDA	Oral Mouse LD50: 3600 mg/kg
	Dermal Rabbit LD50: NDA	Dermal Guinea Pig LD50 NDA

### SECTION 12: Ecological information

#### 12.1 Toxicity

Ethylene glycol monobutyl ether (2-Butoxyethanol)	Daphnia EC50/48h	1550.0000 mg/l
	Fish LC50/96h:	1474.0000 mg/l
	Algae IC50/72h:	1840.0000 mg/l
Isopropanol (Propan-2-ol)	Fish LC50/96h:	1000.0000 mg/l
	Daphnia LC50/48h:	NDA
	Green algae EC50/96h:	NDA

#### 12.2 Persistence and degradability

	No data is available on this product.
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#### 12.3 Bioaccumulative potential

	No data is available on this product.
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#### Partition coefficient

	No data is available on this product.
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#### 12.4 Mobility in soil

	No data is available on this product.
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#### 12.5 Results of PBT and vPvB assessment

	Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.
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#### 12.6 Other adverse effects

	No other adverse effects known.
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### SECTION 13: Disposal considerations

#### General information

	Dispose of in compliance with all local and national regulations.
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#### Disposal of packaging

	Dispose of in compliance with all local and national regulations. Empty containers can be cleaned with water.
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#### Further information

	European Waste Catalogue: 20 01 30 detergents other than those mentioned in 20 01 29.
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### SECTION 14: Transport information

#### 14.1 UN number

	The product is not classified as dangerous for carriage.
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#### 14.2 UN proper shipping name

	The product is not classified as dangerous for carriage.
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#### 14.3 Transport hazard class(es)

ADR/RID	The product is not classified as dangerous for carriage.
Subsidiary risk	-
IMDG	The product is not classified as dangerous for carriage.
Subsidiary risk	-
IATA	The product is not classified as dangerous for carriage.
Subsidiary risk	-

#### 14.4 Packing group

Packing group	The product is not classified as dangerous for carriage.
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#### 14.5 Environmental hazards

Environmental hazards	No
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Marine pollutant	No
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ADR/RID

Hazard ID	-
Tunnel Category	-

IMDG

EmS Code	-
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IATA

Packing Instruction (Cargo)	-
Maximum quantity	-
Packing Instruction (Passenger)	-
Maximum quantity	-

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

	<p>EU regulations:</p> <ul style="list-style-type: none"> <li>• Regulation(EC)No.1907/2006 - REACH</li> <li>• Regulation(EC)No1272/2008 - CLP</li> <li>• Regulation(EC)No.648/2004 - Detergents regulation</li> </ul> <p>Ingredients according to EC Detergents Regulation 648/2004  Less than 5%: Anionic Surfactants  Other ingredients: Preservatives</p>
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#### 15.2 Chemical safety assessment

	A chemical safety assessment has not been carried out on the mixture.
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### SECTION 16: Other information

#### Other information

Revision	This document differs from the previous version in the following areas: Changes to sections 1, 3, 8, 9, 11, 12, 15
Acronyms	LC: Lethal concentration. LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic. SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness.

#### Further information

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p> <p>Internal ref: F000069</p>
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