

SAFETY DATA SHEET

Glass Cleaner

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

G61980

Glass Cleaner

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

Identified uses Glass cleaner.

1.3. Details of the supplier of the safety data sheet

Force Products Ltd
 Stock House, Seymour Road
 Nuneaton
 Warwickshire
 CV11 4LB
 +44 (0) 2476 322130 T
 +44 (0) 2476 322151 F
 sales@forceproducts.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

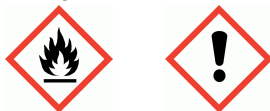
Classification

| | |
|-----------------------|---------------------|
| Physical hazards | Flam. Liq. 3 - H226 |
| Health hazards | Eye Irrit. 2 - H319 |
| Environmental hazards | Not Classified |

Classification (67/548/EEC or 1999/45/EC) R10.

2.2. Label elements

Pictogram



Signal word Warning

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.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P102 Keep out of reach of children.
 P501 Dispose of contents/container in accordance with local regulations.
 P301 IF SWALLOWED:
 P313 Get medical advice/attention.
 P271 Use only outdoors or in a well-ventilated area.

2.3. Other hazards

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This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|---------------------|----------------------|---|
| PROPAN-2-OL | | 5-10% |
| CAS number: 67-63-0 | EC number: 200-661-7 | REACH registration number: 01-2119457558-25 |

Classification

Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

Classification (67/548/EEC or 1999/45/EC)

F;R11 Xi;R36 R67

| | | | |
|------------------------|----------------------|---|-------------|
| 2-BUTOXYETHANOL | | | 1-5% |
| CAS number: 111-76-2 | EC number: 203-905-0 | REACH registration number: 01-2119475108-36 | |

Classification

Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

Classification (67/548/EEC or 1999/45/EC)

Xn;R20/21/22 Xi;R36/38

| | | | |
|-------------------------|----------------------|---|---------------|
| SODIUM HYDROXIDE | | | <1% |
| CAS number: 1310-73-2 | EC number: 215-185-5 | REACH registration number: 01-2119457892-27 | |

Classification

Met. Corr. 1 - H290
Skin Corr. 1A - H314
Eye Dam. 1 - H318

Classification (67/548/EEC or 1999/45/EC)

C;R35

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. |
| Ingestion | Remove affected person from source of contamination. Rinse mouth thoroughly with water. Keep affected person away from heat, sparks and flames. DO NOT induce vomiting. Get medical attention immediately. |
| Skin contact | Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel. |

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

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | No specific symptoms known. |
| Ingestion | May cause irritation. Sore throat. |
| Skin contact | Causes mild skin irritation. |
| Eye contact | May irritate eyes. Redness. |

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

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable extinguishing media | Extinguish with the following media: Dry chemicals, sand, dolomite etc. Alcohol-resistant foam. Water spray, fog or mist. Carbon dioxide (CO ₂). Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved. |
|-------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

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|-------------------------|--|
| Specific hazards | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |
|-------------------------|--|

5.3. Advice for firefighters

| | |
|--|--|
| Protective actions during firefighting | Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Use water spray to reduce vapours. Ventilate closed spaces before entering them. Move containers from fire area if it can be done without risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Avoid contact with skin and eyes. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. Turn leaking containers leak-side up to prevent the escape of liquid. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Store in a demarcated bunded area to prevent release to drains and/or watercourses. |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for cleaning up | Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. |
|--------------------------------|---|

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6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Use good earthing procedures when decanting from container.

Advice on general occupational hygiene Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place.

Storage class Unspecified storage. Keep only in the original container.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm(Sk)

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

PROPAN-2-OL (CAS: 67-63-0)

DNEL

Industry - Dermal; Long term systemic effects: 888 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 500 mg/m³
 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 26 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 89 mg/m³

PNEC

- Fresh water; 140.9 mg/l
 - Marine water; 140.9 mg/l
 - Intermittent release; 140.9 mg/l
 - Sediment (Freshwater); 552 mg/kg
 - Sediment (Marinewater); 552 mg/kg
 - STP; 2251 mg/l
 - Soil; 28 mg/kg

Alcohols, C12-14, ethoxylated (1-2,5 EO), sulphates, sodium salts (CAS: 68891-38-3)

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| | |
|-------------|--|
| DNEL | Industry - Dermal; Long term systemic effects: 2750 mg/kg/day Industry - Inhalation; Long term systemic effects: 175 mg/m ³ Consumer - Oral; Long term systemic effects: 15 mg/kg/day Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day Consumer - Inhalation; Long term systemic effects: 52 mg/m ³ |
|-------------|--|

| | |
|-------------|---|
| PNEC | - Fresh water; 0.24 mg/l - Marine water; 0.024 mg/l - Intermittent release; 0.071 mg/l - Sediment; 5.45 mg/kg - Marine water; 0.545 mg/kg - Soil; 0.946 mg/kg - STP; 10 g/L |
|-------------|---|

SODIUM HYDROXIDE (CAS: 1310-73-2)

| | |
|-------------|--|
| DNEL | Consumer - Inhalation; Long term local effects: 1 mg/m ³ Industry - Inhalation; Long term local effects: 1 mg/m ³ |
|-------------|--|

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection

When using do not smoke

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

Hygiene measures

Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Liquid. |
| Colour | Light blue. |
| Odour | Alcoholic. |
| pH | pH (concentrated solution): 7.5 - 10.2 |
| Melting point | <0°C |
| Initial boiling point and range | >100°C @ |
| Flash point | 41°C CC (Closed cup). |

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| | |
|---|--|
| Upper/lower flammability or explosive limits | No information available. |
| Relative density | 0.985 @ °C |
| Solubility(ies) | Soluble in water. |
| Viscosity | 50-100 m ² /s @ 40°C |
| Comments | Information given is applicable to the major ingredient. |

9.2. Other information

| | |
|----------------------------------|---|
| Other information | Not available. |
| Volatile organic compound | This product contains a maximum VOC content of 110 g/l. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | Stable at normal ambient temperatures and when used as recommended. |
|-------------------|---|

10.2. Chemical stability

| | |
|------------------|---|
| Stability | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---|

10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | Does not decompose when used and stored as recommended. |
|---|---|

10.4. Conditions to avoid

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|----------------------------|---|
| Conditions to avoid | Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidising agents. Reducing agents. |
|----------------------------|---|

10.5. Incompatible materials

| | |
|---------------------------|--|
| Materials to avoid | Keep away from oxidising materials, heat and flames. |
|---------------------------|--|

10.6. Hazardous decomposition products

| | |
|---|--|
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. |
|---|--|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|------------------------------|---------------------------|
| Toxicological effects | No information available. |
|------------------------------|---------------------------|

Acute toxicity - oral

| | |
|-------------------------|-----------|
| ATE oral (mg/kg) | 16,666.67 |
|-------------------------|-----------|

Acute toxicity - dermal

| | |
|---------------------------|-----------|
| ATE dermal (mg/kg) | 36,666.67 |
|---------------------------|-----------|

| | |
|-------------------|--|
| Inhalation | The product contains organic solvents. Overexposure may depress the central nervous system, causing dizziness and intoxication. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. |
| Ingestion | May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach. |

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| | |
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| Skin contact | Prolonged or repeated exposure may cause severe irritation. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema. |
| Eye contact | Irritating to eyes. Irritation, burning, lachrymation, blurred vision after liquid splash. |
| Acute and chronic health hazards | Prolonged or repeated exposure may cause severe irritation. May cause severe internal injury. |
| Route of entry | Inhalation Ingestion. Skin and/or eye contact |
| Medical symptoms | Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). |
| Medical considerations | Effects may be delayed. |

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not available.

12.2. Persistence and degradability

Persistence and degradability Not available.

12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses. Dispose in a regulated landfill site or other method for hazardous or toxic waste.

SECTION 14: Transport information

General Packs of 5L and under are not regulated under the Limited Quantities Provisions.

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

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14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3YE

Hazard Identification Number (ADR/RID) 33

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

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| | |
|-----------------------------|--|
| National regulations | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). |
| EU legislation | Commission Regulation (EU) No 453/2010 of 20 May 2010. |
| Guidance | Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|----------------------------------|--|
| Revision comments | Supplemental information added. |
| Revision date | 25/11/2015 |
| Revision | 3 |
| SDS number | 11009 |
| SDS status | Approved. |
| Risk phrases in full | R10 Flammable. R11 Highly flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R67 Vapours may cause drowsiness and dizziness. |
| Hazard statements in full | H225 Highly flammable liquid and vapour. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H226 Flammable liquid and vapour. H290 May be corrosive to metals. H302 Harmful if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H336 May cause drowsiness or dizziness. |

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