



SAFETY DATA SHEET ARBO GLASS CLEANER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name ARBO GLASS CLEANER

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

Identified uses General purpose glass cleaner.

1.3. Details of the supplier of the safety data sheet

Supplier Adshead Ratcliffe & Co. Ltd.
Derby Road, Belper
Derbyshire.
DE56 1WJ
Tel. (+44) 01773 826661
Fax. (+44) 01773 821215
sds@arbo.co.uk

1.4. Emergency telephone number

(+44) 01773 826661 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.

Human health

Not considered as a health hazard under current legislation.

Environment

Not considered as an environmental hazard under current legislation.

2.2. Label elements

Risk Phrases

NC

Not classified.

Safety Phrases

P13

Safety data sheet available for professional user on request.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| | |
|---|---|
| PROPAN-2-OL | 10 - <15% |
| CAS-No.: 67-63-0 | EC No.: 200-661-7 |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336 | Classification (67/548/EEC) F;R11 Xi;R36 R67 |

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| | | |
|---|--|---------|
| 2-BUTOXYETHANOL | | 1 - <5% |
| CAS-No.: 111-76-2 | EC No.: 203-905-0 | |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 | Classification (67/548/EEC) Xn;R20/21/22 Xi;R36/38 | |

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

General information

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation

If inhalation causes adverse effects, remove to fresh air.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. Do not induce vomiting. Get medical attention.

Skin contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

Inhalation.

No specific symptoms noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

No specific symptoms noted. Prolonged skin contact may cause redness and irritation.

Eye contact

May cause temporary eye irritation.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water.

Protective equipment for fire-fighters

Wear self contained breathing apparatus.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage Class

Unspecified storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Wipe-on, wipe-off application.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|-----------------|-----|-------------|-----------|---------------|------------|-------|
| 2-BUTOXYETHANOL | WEL | 25 ppm(Sk) | | 50 ppm(Sk) | | |
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 | |

WEL = Workplace Exposure Limit.

Ingredient Comments

DNEL and PNEC values given for Propan-2-ol

DNEL

| | | | |
|----------|-------------|-----|-----------|
| Industry | Dermal | 888 | mg/kg/day |
| Industry | Inhalation. | 500 | mg/m3 |
| Consumer | Dermal | 319 | mg/kg/day |
| Consumer | Inhalation. | 89 | mg/m3 |
| Consumer | Oral | 26 | mg/kg/day |

PNEC

| | | |
|-------------|-------|-------|
| Freshwater | 140.9 | mg/l |
| Marinewater | 140.9 | mg/l |
| Sediment | 552 | mg/kg |
| Soil | 28 | mg/kg |

8.2. Exposure controls

Respiratory equipment

Respiratory protection not required.

Hand protection

Use protective gloves.

Eye protection

Use eye protection.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|---|--------------------|
| Appearance | Liquid |
| Colour | Blue. |
| Odour | Odour of alcohol. |
| Solubility | Soluble in water. |
| Initial boiling point and boiling range | 100 |
| Melting point (°C) | No data available. |
| Relative density | 0.92 @ 20°C |
| Vapour density (air=1) | No data available. |
| Vapour pressure | No data available. |
| Evaporation rate | No data available. |
| Evaporation Factor | No data available. |
| pH-Value, Conc. Solution | Not applicable. |
| Viscosity | Compare with water |
| Solubility Value (G/100G H ₂ O@20°C) | No data available. |
| Decomposition temperature (°C) | Not determined. |
| Odour Threshold, Lower | No data available. |
| Odour Threshold, Upper | No data available. |
| Flash point | 60 - 93 |
| Auto Ignition Temperature (°C) | Not applicable. |
| Flammability Limit - Lower(%) | Not applicable. |
| Flammability Limit - Upper(%) | Not applicable. |
| Partition Coefficient (N-Octanol/Water) | Not applicable. |
| Explosive properties | Not applicable. |
| Oxidising properties | Not applicable. |

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not applicable.

Hazardous Polymerisation

Not relevant

10.4. Conditions to avoid

No specific conditions are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials To Avoid

No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

Propan-2-ol: 4700 mg/kg (oral rat)

Toxic Dose 2 - LD 50

Propan-2-ol: >2000 mg/kg (oral-rbt)

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Toxic Conc. - LC 50

Propan-2-ol: 46.5 mg/l/4h (inh-rat)

Toxicological information

The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Skin Corrosion/Irritation:

Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

Carcinogenicity:

Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

Aspiration hazard:

Based on available data the classification criteria are not met.

Inhalation

No specific health warnings noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

Skin irritation is not anticipated when used normally.

Eye contact

May cause temporary eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment. The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/ EC and classified for ecotoxicological hazards accordingly.

12.1. Toxicity

Acute Toxicity - Fish

LC50 48 hours Propan-2-ol: >100 mg/l *Leuciscus idus* (Golden orfe)

EC 50, 48 Hrs, *Daphnia*, mg/l Propan-2-ol: >100

IC 50, 72 Hrs, Algae, mg/l Propan-2-ol: >100

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

Bioaccumulation in aquatic organisms is not expected.

Partition coefficient Not applicable.

12.4. Mobility in soil

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Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No information required.

14.6. Special precautions for user

No information required.

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

No information required.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Revised sections: 2, 3, 14.

Revision Date

26/11/12

ARBO GLASS CLEANER

| | |
|---------------------------|---|
| Supersedes date | 10/07/08 |
| SDS No. | 10016 |
| Risk Phrases In Full | |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R11 | Highly flammable |
| R36/38 | Irritating to eyes and skin. |
| R36 | Irritating to eyes. |
| NC | Not classified. |
| R67 | Vapours may cause drowsiness and dizziness. |
| Hazard Statements In Full | |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H225 | Highly flammable liquid and vapour. |
| H336 | May cause drowsiness or dizziness. |

Disclaimer

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 a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.