

SAFETY DATA SHEET

Arbokol 1025 SP Base

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

1.1. Product identifier

Product name Arbokol 1025 SP Base

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

Identified uses Base component of: Two part epoxy based sealant.

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) R43.

Human health

The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

Environment

The product is not expected to be hazardous to the environment.

2.2. Label elements

Contains TRIETHYLENETETRAMINE

Labelling



Irritant

Risk Phrases

R43

May cause sensitisation by skin contact.

Safety Phrases

S24

Avoid contact with skin.

S37

Wear suitable gloves.

S60

This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Arbokol 1025 SP Base

| | | |
|---|---|---------|
| HYDROGENATED TERPHENYL | | 5 - 10% |
| CAS-No.: 61788-32-7 | EC No.: 262-967-7 | |
| Classification (EC 1272/2008) Aquatic Chronic 4 - H413 | Classification (67/548/EEC) R53. | |
| TRIETHYLENETETRAMINE | | 1 - <5% |
| CAS-No.: 112-24-3 | EC No.: 203-950-6 | |
| Classification (EC 1272/2008) Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412 | Classification (67/548/EEC) C;R34 Xn;R21 R43 R52/53 | |

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

Composition Comments

Polyamide with fillers, and extender, and auxiliaries.

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

Fresh air. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. Get medical attention if any discomfort continues.

Skin contact

Wipe off excess material with cloth or paper. 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 eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

Inhalation.

No specific symptoms noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged skin contact may cause redness and irritation. Allergic rash.

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.

Arbokol 1025 SP Base

Unusual Fire & Explosion Hazards

Not known.

Specific hazards

In case of fire, toxic gases may be formed (COx, NOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Wear self contained breathing apparatus.

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. Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Collect in containers and seal securely. Flush area with water. Do not contaminate water sources or sewer.

6.4. Reference to other sections

For personal protection, see section 8. 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. Persons susceptible to allergic reactions should not handle this product. 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

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

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

Usage Description

Gunnable sealant / adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | STEL - 15 Min | Notes |
|------------------------|-----|-------------|----------------------|-------|
| HYDROGENATED TERPHENYL | | | 0.5 ppm 4.8 mg/m3 | |

Ingredient Comments

DNEL and PNEC values given for hydrogenated terphenyl.

DNEL

| | | | | |
|----------|-------------|-----------|------------------|----------------|
| Industry | Dermal | Long Term | Systemic Effects | 46.3 mg/kg/day |
| Industry | Inhalation. | Long Term | Systemic Effects | 8.38 mg/m3 |
| Industry | Dermal | Long Term | Local Effects | 0.00002 mg/m3 |
| Industry | Inhalation. | Long Term | Local Effects | 83.8 mg/m3 |
| Consumer | Dermal | Long Term | Systemic Effects | 27.8 mg/kg/day |
| Consumer | Inhalation. | Long Term | Systemic Effects | 2.5 mg/m3 |
| Consumer | Dermal | Long Term | Local Effects | 0.000012 mg/m3 |
| Consumer | Inhalation. | Long Term | Local Effects | 25.0 mg/m3 |

PNEC

| | | |
|----------------------|---------|-------|
| Freshwater | 0.0001 | mg/l |
| Marinewater | 0.00001 | mg/l |
| Intermittent release | 0.001 | mg/l |
| Sediment | 3.16 | mg/kg |

Arbokol 1025 SP Base

| | | |
|------------------------|-------|-------|
| Sediment (Marinewater) | 0.316 | mg/kg |
| Soil | 0.631 | mg/kg |
| STP | 10.3 | mg/l |

Method detail: Assessment factors. Equilibrium partitioning.

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation.

Hand protection

Use protective gloves made of: Polyvinyl chloride (PVC). Nitrile. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Environmental Exposure Controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Paste |
| Colour | Buff. |
| Odour | Ammonia. |
| Solubility | Slightly soluble in water. |
| Initial boiling point and boiling range | Hydrogenated terphenyl: 342 °C @ 1, 013 hPa |
| Melting point (°C) | Hydrogenated terphenyl: < -24 °C @ 1, 013 hPa |
| Relative density | 1.10 @ 20°C |
| Vapour density (air=1) | Not applicable. |
| Vapour pressure | Hydrogenated terphenyl: 0.00174 hPa @ 20 °C |
| Evaporation rate | Not applicable. |
| pH-Value, Conc. Solution | Not applicable. |
| Viscosity | 12, 000 - 15, 000 Ps @ 20°C |
| Solubility Value (G/100G H ₂ O@20°C) | Hydrogenated terphenyl: 0.061 mg/l |
| Odour Threshold, Lower | Not applicable. |
| Odour Threshold, Upper | Not applicable. |
| Flash point | Hydrogenated terphenyl: 170 @ 1, 013 hPa DIN EN 22719 |
| Auto Ignition Temperature (°C) | Hydrogenated terphenyl: 374 |
| Flammability Limit - Lower(%) | Not applicable. |
| Flammability Limit - Upper(%) | Not applicable. |
| Partition Coefficient (N-Octanol/Water) | Hydrogenated terphenyl: > 3, 160, 000 |
| Explosive properties | Not applicable. |
| Oxidising properties | Does not meet the criteria for oxidising. |

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 known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50

Hydrogenated terphenyl: >12, 500 Triethylenetetramine: 2500 mg/kg (oral rat)

Toxic Dose 2 - LD 50 Hydrogenated terphenyl: > 2, 000 mg/kg Trethylenetetramine: 805 mg/kg (dermal rabbit)

Toxic Conc. - LC 50 Hydrogenated terphenyl: > 4.7 mg/l (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.

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.

Respiratory or skin sensitisation:

Sensitising.

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:

Not relevant, due to the form of the product.

Inhalation

Not relevant at normal room temperatures. When heated, toxic vapours may be formed.

Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

Skin contact

May cause sensitisation by skin contact.

Eye contact
May cause temporary eye irritation.
Medical Considerations
Skin disorders and allergies.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l Hydrogenated terphenyl:>1000
EC 50, 48 Hrs, Daphnia, mg/l Hydrogenated terphenyl: >1.34
Acute Toxicity - Aquatic Plants
EC50 96 hours Hydrogenated terphenyl: 56 mg/l Selenastrum capricornutum

12.2. Persistence and degradability

Degradability
The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient Hydrogenated terphenyl: > 3, 160, 000

12.4. Mobility in soil

Mobility:
The product has poor water-solubility.

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
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. 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.
Waste Class
H13 - Sensitising
Recommended EWC Code 08 04 09*

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

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 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: 3, 8, 12,

Revision Date 13/06/13

Supersedes date 15/08/12

SDS No. 10286

Risk Phrases In Full

- R34 Causes burns.
- R21 Harmful in contact with skin.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 May cause long-term adverse effects in the aquatic environment.
- R43 May cause sensitisation by skin contact.

Hazard Statements In Full

- H314 Causes severe skin burns and eye damage.
- H312 Harmful in contact with skin.
- H412 Harmful to aquatic life with long lasting effects.
- H317 May cause an allergic skin reaction.
- H413 May cause long lasting harmful effects to aquatic life.

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.