



SAFETY DATA SHEET

Arbo Polymer Putty

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

1.1. Product identifier

Product name Arbo Polymer Putty

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

Identified uses Face glazing of single glass into paint finished steel or timber frames.

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

Emergency telephone (+44) 01773 826661 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health Not considered as a health hazard under current legislation.

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

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Arbo Polymer Putty

OXYDIPROPYL DIBENZOATE	1-5%
CAS number: 27138-31-4	EC number: 248-258-5
Classification Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

Composition comments Aqueous acrylic emulsion with mineral fillers 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	If inhalation causes adverse effects, remove to fresh air.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. 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 skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed.
Skin contact	No specific symptoms known.
Eye contact	May cause temporary eye irritation.

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	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . No unusual fire or explosion hazards noted.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

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Special protective equipment for firefighters Wear self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear appropriate protective clothing. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

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

Usage precautions No specific recommendations.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class Unspecified storage.

7.3. Specific end use(s)

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

Usage description Gunnable sealant.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

OXYDIPROPYL DIBENZOATE (CAS: 27138-31-4)

DNEL

Workers - Inhalation; Long term systemic effects: 8.8 mg/m³
 Workers - Inhalation; Short term systemic effects: 35.08 mg/m³
 Workers - Dermal; Long term systemic effects: 10 mg/kg/day
 Workers - Dermal; Short term systemic effects: 170 mg/kg/day
 General population - Inhalation; Long term systemic effects: 8.69 mg/m³
 General population - Inhalation; Short term systemic effects: 8.7 mg/l
 General population - Dermal; Long term systemic effects: 0.22 mg/kg/day
 General population - Dermal; Short term systemic effects: 80 mg/kg/day
 General population - Oral; Long term systemic effects: 5.0 mg/kg/day
 General population - Oral; Short term systemic effects: 80 mg/kg/day

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PNEC

- Fresh water; 3.7 µg/l
- Marine water; 0.37 µg/l
- Intermittent release; 37 µg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1.49 mg/kg
- Sediment (Marinewater); 0.149 mg/kg
- Soil; 1.0 mg/kg
- Oral (food); 333 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

Not generally required.

Hand protection

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

Hygiene measures

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

Respiratory protection

Not normally required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Thixotropic paste.
Colour	Cream.
Odour	Slight.
Odour threshold	Not applicable.
pH	pH (concentrated solution): ~ 8
Melting point	Not applicable. °C
Initial boiling point and range	Not applicable. °C @
Flash point	Not applicable. °C
Evaporation rate	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: Not applicable. Upper flammable/explosive limit: Not applicable.
Vapour pressure	Not applicable. @ °C
Vapour density	Not applicable.
Relative density	1.75 @ 20°C
Solubility(ies)	Miscible with water.
Partition coefficient	: Not applicable.

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Auto-ignition temperature	Not applicable. °C	
Viscosity	9000 - 15000 P @ 20°C	
Explosive properties	Explosive properties Explosive properties	Not applicable.
Oxidising properties	Oxidising properties Not applicable.	Not applicable. Explosive properties

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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 Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects For this endpoint no toxicological data is available for the whole product.

Acute toxicity - oral

Notes (oral LD₅₀) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - dermal

Notes (dermal LD₅₀) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

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Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Inhalation No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation. Will not injure eye tissue.

Toxicological information on ingredients.

OXYDIPROPYL DIBENZOATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3295 - 5072 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >200 mg/l/4hr/day, Inhalation, Rat

Skin corrosion/irritation

Animal data Oedema score: No oedema (0). Erythema/eschar score: No erythema (0). Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Reproductive toxicity

Reproductive toxicity - development Fetotoxicity: - NOAEL: 500 mg/kg, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1000 mg/kg, Oral, Rat

SECTION 12: Ecological Information

Ecotoxicity For this endpoint no toxicological data is available for the whole product.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: Not determined mg/l, Algae

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: Not determined mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: Not determined mg/l, Fish

Ecological information on ingredients.

OXYDIPROPYL DIBENZOATE

Acute toxicity - fish	LC ₅₀ , 96 hours: 3.7 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 96 hours: 1.2 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL50, 48 hours: 19.3 mg/l, Daphnia magna NOELR, 48 hours: 2.2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 4.9 mg/l, Selenastrum capricornutum EC ₅₀ , 96 hours: 3.6 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: >100 mg/l, Activated sludge NOEC, 3 hours: >= 100 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

OXYDIPROPYL DIBENZOATE

Biodegradation	Water - Degradation 85%: 28 days The substance is readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient : Not applicable.

Ecological information on ingredients.

OXYDIPROPYL DIBENZOATE

Partition coefficient	log Kow: 3.9
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12.4. Mobility in soil

Mobility The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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Waste class Recommended EWC Code 08 04 10

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 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

EU legislation Regulation (EC) 1907/2006 REACH (as amended).
Regulation (EC) 1272/2008 CLP (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments General review

Revision date 02/06/2017

Revision 3

Supersedes date 10/05/2017

SDS number 20368

Hazard statements in full H412 Harmful to aquatic life with long lasting effects.

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 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.