



SAFETY DATA SHEET

BARTOLINE - PVA Adhesive & Sealer

According to Regulation (EC) No 1907/2006 Annex II as amended by Regulation (EU) 2015/830.

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

1.1. Product identifier

Product name BARTOLINE - PVA Adhesive & Sealer

REACH registration notes No REACH registration number required as this product is a mixture.

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

Identified uses MULTI -PURPOSE SEALING/ADHESIVE AGENT

Uses advised against Not to be used for any other purpose than stated above.

1.3. Details of the supplier of the safety data sheet

Supplier Bartoline Limited
Barmston Close
Beverley
East Yorkshire
HU17 0LW
01482 678710
info@bartoline.co.uk

Contact person Regulatory Manager

1.4. Emergency telephone number

Emergency telephone 01482 678710 (8.30am - 4.45pm Monday to Friday) or NHS 111 (General Public) (24 Hour service)

National emergency telephone number National Poisons Information Service (24hours) 0844 892 0111

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

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P102 Keep out of reach of children.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Supplemental label information

Contains a preservative to control microbial deterioration: 2-methyl-2H-isothiazol-3-one & 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

bronopol (INN) <1% CAS number: 52-51-7 EC number: 200-143-0 M factor (Acute) = 10
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400
2-methylisothiazol-3(2H)-one <1% CAS number: 2682-20-4 EC number: 220-239-6 M factor (Acute) = 1
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400
1,2-benzisothiazol-3(2H)-one <1% CAS number: 2634-33-5 EC number: 220-120-9 M factor (Acute) = 1
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400

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Pyrithione zinc	<1%
CAS number: 13463-41-7	EC number: 236-671-3
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Acute Tox. 3 - H301	
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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

Composition comments A PLASTICISED AQUEOUS POLYVINYL ACETATE EMULSION.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	This is a non hazardous mixture and as such any ill health effects are unlikely to have been caused by contact with this product. Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Treat symptomatically. Show this Safety Data Sheet to the medical personnel.
Inhalation	Unlikely route of exposure. Due to the small packaging, the risk of inhalation is minimal. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. General first aid, rest, warmth and fresh air.
Ingestion	Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately! Provide rest, warmth and fresh air. Remove person to fresh air and keep comfortable for breathing.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation persists after washing.
Protection of first aiders	This is a non hazardous product and therefore no protection should be required, however consideration should be given to other contaminants in the workplace. No specific requirements are anticipated under normal conditions of use. First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	See Section 11 for additional information on health hazards.
Inhalation	No specific symptoms known.
Ingestion	There may be soreness and redness of the mouth and throat.
Skin contact	There may be mild irritation at the site of contact.
Eye contact	Irritating and may cause redness and pain.

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

Notes for the doctor	Treat symptomatically.
Specific treatments	If adhesive bonding occurs, prise the skin apart slowly, working from the edge of the bonded area. This can be eased by using warm soapy water.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. 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 No specific precautions due to the small quantities handled.

Hazardous combustion products None known. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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.

6.2. Environmental precautions

Environmental precautions As this product is only supplied in small quantities there is a low risk of any environmental damage.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13. Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

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

Usage precautions Read and follow manufacturer's recommendations. Avoid contact with skin and eyes. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid eating, drinking and smoking when using the product.

Advice on general occupational hygiene No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Protect from freezing and direct sunlight. Keep container dry. Keep in a cool, well ventilated place. Store in accordance with local regulations.

Storage class Unspecified storage.

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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
Usage description	Keep containers closed when not in use. Keep out of reach of children. Apply "common sense" measures when handling this product. Always follow on pack instructions when using this product. Where possible avoid prolonged contact with the skin.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

No information on supplier MSDS and no information in HSE EH40/2005 Workplace Exposure Limits.

1,2-benzisothiazol-3(2H)-one

No information on supplier MSDS and no information in HSE EH40/2005 Workplace Exposure Limits.

Pyrithione zinc

Long-term exposure limit (8-hour TWA):

According to the Suppliers MSDS this substance has no occupational exposure limit values.

DNEL No data available from supplier of the substances.

PNEC No data available from the substance supplier.

1,2-benzisothiazol-3(2H)-one (CAS: 2634-33-5)

DNEL No data available from supplier of the substances.

PNEC No data available from the substance supplier.

Pyrithione zinc (CAS: 13463-41-7)

DNEL Data taken from the ECHA REACH Registration Portal.
Industry - Dermal; Long term systemic effects: 0.01 mg/kg

PNEC Data taken from the ECHA REACH Registration Portal.
Industry - Fresh water; Long term 90 ng/l
Industry - Marine water; Long term 90 ng/l
Industry - STP; Long term 0.01 mg/l
Industry - Sediment (Freshwater); Long term 0.0095 mg/kg
- Sediment (Marinewater); Long term 0.0095 mg/kg
- Soil; Long term 1.02 mg/kg

8.2. Exposure controls

Appropriate engineering controls	Protective engineering solutions should be implemented, and in use, before Personal Protective Equipment (PPE) is considered.
Personal protection	This product is supplied in ready to use cartridges, and when used correctly, poses very little risk to man.
Eye/face protection	Where there is a risk of splashes to the eyes it is recommended that safety glasses/goggles approved to EN166 standard are worn.

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Hand protection	Although the product is not classified as a skin irritant, the wearing of gloves is recommended for people with sensitive skin or for prolonged or repeated use. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin. To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves made of the following material: Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Respiratory protection	No specific requirements are anticipated under normal conditions of use.
Thermal hazards	Not Applicable

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White.
Odour	Barely perceptible.
Odour threshold	No information available.
pH	Ready to use state. 5.5 - 6.5
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.04g/l
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	7000-15000cps Brookfield RTV 5/20

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Explosive properties	Not available.
Explosive under the influence of a flame	Not available.
Oxidising properties	Not available.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

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. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid frost.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

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

Toxicological effects No data for the product as a whole. See information on individual substances below. Unless stated otherwise the data quoted below is for the hazardous ingredients.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met. (Mixture as a whole)

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met. (Mixture as a whole)

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met. (Mixture as a whole)

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met. (Mixture as a whole)

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met. (Mixture as a whole)

Genotoxicity - in vivo Based on available data the classification criteria are not met. (Mixture as a whole)

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Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met. (Mixture as a whole)

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met. (Mixture as a whole)

Reproductive toxicity - development Based on available data the classification criteria are not met. (Mixture as a whole)

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met. (Mixture as a whole)

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met. (Mixture as a whole)

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met. (Mixture as a whole)

Inhalation The product is considered to be a low hazard under normal conditions of use. (Mixture as a whole)

Ingestion No harmful effects expected from quantities likely to be ingested by accident. (Mixture as a whole)

Skin contact The product is considered to be a low hazard under normal conditions of use. Repeated exposure may cause skin dryness or cracking. (Mixture as a whole)

Eye contact The product is considered to be a low hazard under normal conditions of use. May be slightly irritating to eyes. There may be mild irritation and redness. (Mixture as a whole)

Toxicological information on ingredients.

bronopol (INN)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 305.0

Species Rat

ATE oral (mg/kg) 305.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,600.0

Species Rat

ATE dermal (mg/kg) 1,600.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5.01

Species Rat

ATE inhalation (dusts/mists mg/l) 5.01

2-methylisothiazol-3(2H)-one

BARTOLINE - PVA Adhesive & SealerAcute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalationATE inhalation (vapours
mg/l) 0.51,2-benzisothiazol-3(2H)-oneAcute toxicity - oralAcute toxicity oral (LD₅₀
mg/kg) 1,020.0

Species Rat

ATE oral (mg/kg) 1,020.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalationAcute toxicity inhalation
(LC₅₀ dust/mist mg/l) 5.01

Species Rat

ATE inhalation
(dusts/mists mg/l) 5.01Pyrithione zincAcute toxicity - oralAcute toxicity oral (LD₅₀
mg/kg) 269.0

Species Rat

ATE oral (mg/kg) 269.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀
mg/kg) 2,000.01

Species Rat

ATE dermal (mg/kg) 2,000.01

Acute toxicity - inhalationAcute toxicity inhalation
(LC₅₀ dust/mist mg/l) 1.03

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Species	Rat
ATE inhalation (dusts/mists mg/l)	1.03

SECTION 12: Ecological Information

Ecotoxicity No information on supplier MSDS.

12.1. Toxicity

Toxicity The product is not classified as dangerous for the environment but contains small amount of substances so classified.

Ecological information on ingredients.

2-methylisothiazol-3(2H)-one

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

1,2-benzisothiazol-3(2H)-one

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hour: 0.8 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 4.4 mg/l, Daphnia magna

Pyrithione zinc

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability Based on the suppliers SDS this product is expected to be biodegradable.

Phototransformation Not available.

Stability (hydrolysis) Not available.

Biodegradation Not available.

Biological oxygen demand Not available.

Chemical oxygen demand Not available.

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12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely. Supplier's information.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product is miscible with water and may spread in water systems. Readily absorbed into soil.

Adsorption/desorption coefficient Not available.

Henry's law constant Not available.

Surface tension Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This mixture contains no substances considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information on ingredients.

1,2-benzisothiazol-3(2H)-one

Results of PBT and vPvB assessment This substance is considered not to be PBT and vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. The packaging must be empty (drop-free when inverted). Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Waste class

When this product, in its liquid state, as supplied becomes waste it should be disposed of using the following waste code. EU Waste Code 08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09. Empty plastic containers can be disposed of using EU Waste code 15 01 02 plastic packaging. It is usually obvious if a container is 'empty', for example a half empty tin of solidified paint is not empty, but where there is a small amount of residual material a container will not be empty if that residual material can be removed by physical or mechanical means by applying normal industry standards or processes. This means that all reasonable efforts must have been made to remove any left-over contents from the container. This may involve for example washing, draining or scraping. The method of emptying will depend on the container and the type of material it contains. Note: if the design of the packaging, its aperture, or the adherent nature of the material does not permit it to be emptied then it will not be a packaging waste. If a container is not 'empty' it is not packaging waste. It should be classified on the basis of its contents and the source or activity that produced it. Part-used containers should be disposed of using waste code: EU Waste Code 08 04 10: Waste adhesives and sealants other than those mentioned in 08 04 09. These codes have been assigned based on the actual composition of the product as supplied. If mixed with other wastes, the waste codes quoted may not be applicable.

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits. Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	Workplace Exposure Limits EH40.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	When surfaces are to be prepared for painting account must be taken of the age of the property and the possibility that lead may be present. As a working rule you should assume that this will be the case if the age of the property is pre 1960. Where possible wet flattening or chemical stripping methods should be used with surfaces of this type to avoid the formation of lead dust.
Training advice	The information on directions for use can be found on the product label. It is important to ensure that anyone using this product in the workplace has been adequately trained and in particular: The use of personal protective equipment, methods of cleaning up and disposal of waste. The basic first aid arrangements.
Issued by	Product Compliance Manager
Revision date	28/09/2018
Revision	1
SDS number	5582
SDS status	Approved.

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Hazard statements in full

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

The information contained in this data sheet is provided in accordance with the requirements of the Regulation (EC) No 1907/2006 Annex II as amended by Regulation (EU) 2015/830 and Regulation (EC) No 1272/2008 (CLP). The product should not be used for purposes other than those shown in Section 1.2. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present knowledge and the current EU and UK Legislation. It provides guidance on health, safety and environmental aspects of the product and should not be taken as a product specification. 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.