

Revision Date 13/11/12

Supersedes date 21/10/10



## SAFETY DATA SHEET

### ARBO 2020 BASE

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

##### 1.1. Product identifier

Product name ARBO 2020 BASE

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

Identified uses Base component of: Construction joint 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) Xi;R38. R43. R52/53.

Human health

Prolonged skin contact may cause redness and irritation. May cause allergic skin disorders in sensitive individuals.

Environment

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

##### 2.2. Label elements

Contains OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Labelling EPOXY RESIN (Number average MW <= 700 )

BISPHENOL F - EPICHLOROHYDRIN RESIN (number average MW <= 700)



Irritant

Risk Phrases

R38

Irritating to skin.

R43

May cause sensitisation by skin contact.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

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S24	Avoid contact with skin.
S37	Wear suitable gloves.
S60	This material and its container must be disposed of as hazardous waste.
P5	Contains epoxy constituents. See information supplied by the manufacturer.

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS		5 - 10%
CAS-No.: 68609-97-2	EC No.:	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Skin Irrit. 2 - H315	R43	
Skin Sens. 1 - H317	Xi;R38	
EPOXY RESIN (Number average MW <= 700 )		< 3%
CAS-No.: 25068-38-6	EC No.: 500-033-5	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Skin Irrit. 2 - H315	R43	
Eye Irrit. 2 - H319	Xi;R36/38	
Skin Sens. 1 - H317	N;R51/53	
Aquatic Chronic 2 - H411		
3-GLYCIDOXYPROPYLTRIMETHOXYSILANE		< 1.5%
CAS-No.: 2530-83-8	EC No.: 219-784-2	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Eye Dam. 1 - H318	Xi;R41.	
BISPHENOL F - EPICHLOROHYDRIN RESIN (number average MW <= 700)		< 2%
CAS-No.: 28064-14-4	EC No.:	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Skin Irrit. 2 - H315	Xi;R36/38.	
Eye Irrit. 2 - H319	N;R51/53.	
Skin Sens. 1 - H317	R43.	
Aquatic Chronic 2 - H411		

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

Composition Comments

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Flexibilised liquid bisphenol A/F epoxy resin, 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

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.

Unusual Fire & Explosion Hazards

Not known.

Specific hazards

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 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

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### 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. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. 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.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Ingredient Comments

No DNEL or PNEC values available.

### 8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation.

Respiratory equipment

No specific recommendations.

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

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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	White / off-white.
Odour	Mild.
Solubility	Insoluble in water
Initial boiling point and boiling range	Not applicable.
Melting point (°C)	Not applicable.
Relative density	~ 1.5 @ 20°C
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not applicable.
pH-Value, Conc. Solution	Not applicable.
Viscosity	10, 000 - 13, 000 Ps @ 20°C
Solubility Value (G/100G H <sub>2</sub> O@20°C)	Not applicable.
Odour Threshold, Lower	Not applicable.
Odour Threshold, Upper	Not applicable.
Flash point	Not applicable.
Auto Ignition Temperature (°C)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Flammability Limit - Upper(%)	Not applicable.
Partition Coefficient (N-Octanol/Water)	Not applicable.
Oxidising properties	Does not meet the criteria for oxidising.

#### 9.2. Other information

Not available.

### 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

Amines. Mercaptans (thiols). Strong acids. Strong alkalis. 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                      No data available for product.

Toxic Dose 2 - LD 50                      No data available for product.

Toxic Conc. - LC 50                      No data available for product.

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:

Irritating.

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

May cause irritation to the respiratory system.

Ingestion

Gastrointestinal symptoms, including upset stomach. May cause irritation of mouth, throat and stomach.

Skin contact

May cause sensitisation by skin contact.

Eye contact

May cause temporary eye irritation.

Health Warnings

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy.

Medical Symptoms

Skin irritation. Allergic rash.

Medical Considerations

Skin disorders and allergies.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l                      Not determined.  
EC 50, 48 Hrs, Daphnia, mg/l              Not determined. IC  
50, 72 Hrs, Algae, mg/l              Not determined.

### 12.2. Persistence and degradability

Degradability  
Poorly biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential  
Has the potential to bioaccumulate.  
Partition coefficient                      Not applicable.

### 12.4. Mobility in soil

Mobility:  
The product is insoluble 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

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.  
May be mixed with curing agent component to give an inert polymeric material.

Waste Class

H4 - Irritant

H13 - Sensitising

H14 - Ecotoxic

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

## ARBO 2020 BASE

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 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, New format as required by REACH Annex II

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SDS No. 10187

Risk Phrases In Full

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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.