



**SAFETY DATA SHEET**  
**ATLANTEAK 2.0 EPOXY ADHESIVE PART A**

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

**1.1. Product identifier**

**Product name** ATLANTEAK 2.0 EPOXY ADHESIVE PART A

**Product number** AA-000320

**UFI** UFI: 6JA0-40JN-M009-S4CT

**EU REACH registration notes** All chemicals used in this product have been registered under REACH where required.

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

**Identified uses** Adhesive.

**Uses advised against** No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet**

**Supplier** Tiflex Ltd  
Tiflex House  
Treborgie Water  
Liskeard  
Cornwall  
PL14 4NB  
Tel: +44 (0) 1579 320 808  
Fax: +44 (0) 1579 320 802  
Email: sward@tiflex.co.uk

**1.4. Emergency telephone number**

**Emergency telephone** +44 (0) 1579 320 808 (NOT 24HRS - 9am-5pm Mon-Thurs, 9am-4pm Fri)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (SI 2019 No. 720)**

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

**Environmental** 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**

## ATLANTEAK 2.0 EPOXY ADHESIVE PART A

### Hazard pictograms



### Signal word

Warning

### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

### Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P321 Specific treatment (see medical advice on this label).  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P391 Collect spillage.

### 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

<b>bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE</b>	<b>50-65%</b>
CAS number: 1675-54-3	EC number: 216-823-5
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin</b>	<b>35-50%</b>
CAS number: 9003-36-5	EC number: 500-006-8
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	

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<b>ETHANEDIOL</b>	<b>&lt;1%</b>
CAS number: 107-21-1	EC number: 203-473-3
<b>Classification</b>	
Acute Tox. 4 - H302	

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

**Composition comments** EPOXY RESIN PASTE

### Chemical Nature

chemical nature

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air at once.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Rinse with water. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
<b>Specific treatments</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

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**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water.

**Special protective equipment for firefighters** Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing.

**For non-emergency personnel** Wear protective clothing as described in Section 8 of this safety data sheet.

**For emergency responders** Wear protective clothing as described in Section 8 of 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** Absorb in vermiculite, dry sand or earth and place into containers.

### 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Wear eye and face protection. For personal protection, see Section 8.

**Advice on general occupational hygiene** When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at temperatures between 5°C and 25°C. Store in tightly-closed, original container in a dry and cool place.

**Storage class** Miscellaneous hazardous material 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** Adhesive.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### ETHANEDIOL

Short-term exposure limit (15-minute): 40 104

**bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE (CAS: 1675-54-3)**

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<b>DNEL</b>	Workers - Dermal; Short term : 8.33 mg/kg/day Workers - Inhalation; Short term : 12.25 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.006 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

#### Eye/face protection

Wear chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 6 hours. Wear protective gauntlets made of the following material: Butyl rubber.

#### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands thoroughly after handling. Wash skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

#### Thermal hazards

Contact with hot product can cause serious thermal burns.

#### Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Flash point</b>	Not determined.

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<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1.185 - 1.190 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Aromatic solvents.
<b>Viscosity</b>	Thixotropic
<b>Comments</b>	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** No information required.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids. Alkalis. Amines.

### 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** The following materials may react with the product: Acids. Alkalis. Amines.

### 10.4. Conditions to avoid

**Conditions to avoid** Reactions with the following materials may generate heat: Alkalis. Amines.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong alkalis. Amines.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>General information</b>	Contains epoxy constituents. May produce an allergic reaction.
<b>Inhalation</b>	The product contains a sensitising substance.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Irritating to skin. May cause sensitisation by skin contact.

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**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Route of exposure** Skin and/or eye contact

### Toxicological information on ingredients.

#### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 2000 mg/kg, Oral, Rat

#### Hydrophilic Fumed Silica

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,500.0

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,500.0

Species Rabbit

ATE dermal (mg/kg) 2,500.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 58.8

Species Rat

ATE inhalation (dusts/mists mg/l) 58.8

#### ETHANEDIOL

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 6,000.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 22,270.0

Species Rabbit

ATE dermal (mg/kg) 22,270.0

##### Acute toxicity - inhalation

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Acute toxicity inhalation 3.96  
(LC<sub>50</sub> vapours mg/l)

Species Rat

### SECTION 12: Ecological information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

##### Ecological information on ingredients.

##### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

<b>Toxicity</b>	Toxic to aquatic life with long lasting effects.
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: 2.54 mg/l, Freshwater fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 96 hours: > 1000 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: > 1.8 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , 3 hours: >100 mg/l, Activated sludge
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.3 mg/l, Daphnia magna

##### Hydrophilic Fumed Silica

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: > 10,000 mg/l, Freshwater fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 10,000 mg/l, Daphnia magna

##### ETHANEDIOL

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: > 46300 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 46,300 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: > 9,600 mg/l, Freshwater algae

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be slowly biodegradable.

##### Ecological information on ingredients.

##### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin



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**Persistence and degradability** The product is not readily biodegradable.

**Biodegradation** - Degradation 0%: 28 days

### ETHANEDIOL

**Biodegradation** Water - Degradation (%) 60: > 28 days

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

#### Ecological information on ingredients.

##### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

**Bioaccumulative potential** Potentially bioaccumulating. BCF: 150 Estimated Value,

**Partition coefficient** log Pow: 3.6

#### 12.4. Mobility in soil

**Mobility** The product is non-volatile.

#### Ecological information on ingredients.

##### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

**Mobility** Not considered mobile.

**Adsorption/desorption coefficient** - Koc: 4460 @ 20°C

#### 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.

#### Ecological information on ingredients.

##### Reaction Product: bisphenol F-(epichlorohydrin); epoxy resin

**Results of PBT and vPvB assessment** No data available.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

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

### **SECTION 14: Transport information**

#### 14.1. UN number

**UN No. (ADR/RID)** 3082

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UN No. (IMDG) 3082

UN No. (ICAO) 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), )

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), )

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), )

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), )

### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID label 9

IMDG class 9

ICAO class/division 9

#### Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-F

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

### 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

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>Guidance</b>	Workplace Exposure Limits EH40.
<b>Authorisations (SI 2020 No. 1577 Annex XIV)</b>	No specific authorisations are known for this product.
<b>Restrictions (SI 2020 No. 1577 Annex XVII)</b>	No specific restrictions on use are known for this product.

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>cATpE: Converted acute toxicity point estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>DMEL: Derived Minimal Effect Level.</p> <p>UN: United Nations.</p> <p>IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).</p>
<b>Key literature references and sources for data</b>	Dangerous Properties of Industrial Materials Report, N.Sax et.al.

## ATLANTEAK 2.0 EPOXY ADHESIVE PART A

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	28/04/2022
<b>Revision</b>	18
<b>Supersedes date</b>	25/08/2020
<b>SDS number</b>	21774
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic 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.