



23.01.2023

**Kit components**

Product code	Description
--------------	-------------

<b>86448</b>	<b>EPOXY ADHESIVE</b>
--------------	-----------------------

Components:

86448A	Semi-flexible Epoxy Adhesive Part A
86448B	Semi-flexible Epoxy Adhesive Part B

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

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

#### 1.1 Product identifier

Trade name: **Semi-flexible Epoxy Adhesive Part A**

Article number: 86448A

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

**Application of the substance / the mixture** Epoxy resin adhesive

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS07



GHS09

**Signal word** Warning

#### Hazard-determining components of labelling:

Glycidyl Ethers of Bisphenol A resins

2-Propenoic acid, reaction products with dipentaerythritol

#### 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.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part A**

(Contd. of page 1)

**Precautionary statements**

P280 Wear protective gloves.

**Additional information:**

Contains epoxy constituents. May produce an allergic reaction.

**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS07

GHS09

**Signal word** Warning**Hazard-determining components of labelling:**

Glycidyl Ethers of Bisphenol A resins

2-Propenoic acid, reaction products with dipentaerythritol

**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and 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.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of the substances listed below with harmless additions.**Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	Glycidyl Ethers of Bisphenol A resins ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	25-50%
CAS: 144086-02-2 EC number: 604-394-0 Reg.nr.: 01-2119979050-40	Tetraacrylate pentaerythritol alkoxy ⚠ Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319	10-25%
CAS: 1384855-91-7 EC number: 800-838-4 Reg.nr.: 01-2119980666-22	2-Propenoic acid, reaction products with dipentaerythritol ⚠ Eye Irrit. 2, H319; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	5-10%

**Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.**After swallowing**

Rinse out mouth.

In case of persistent symptoms consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part A**

(Contd. of page 2)

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

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

**Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** Not required.**6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

Prevent formation of dust.

**Information about protection against explosions and fires:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:** Store in cool location.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

Store container in a well ventilated position.

**Storage class** 12**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**DNELs****25068-38-6 Glycidyl Ethers of Bisphenol A resins**

Dermal	Acute systemic effect	8.33 mg/kg bw/day (Worker)
	Long term systemic effect	8.33 mg/kg/dy (Worker)

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part A**

(Contd. of page 3)

Inhalative	Long term systemic effect	12.25 mg/m <sup>3</sup> (Worker)
	Acute systemic effect	12.25 mg/m <sup>3</sup> (Worker)

**· PNECs****25068-38-6 Glycidyl Ethers of Bisphenol A resins**

PNEC	0.006 mg/l (Aqua (freshwater))
	0.018 mg/l (Aqua (intermittent))
	0.0006 mg/l (Aqua (marine water))
	0.996 mg/kg (Freshwater sediment)
	0.0996 mg/kg (Marine water sediment)
	10 mg/l (Sewage treatment plant)
	0.192 mg/kg (Soil)

· **Additional information:** The lists that were valid during the compilation were used as basis.

**· 8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

**· General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

**· Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A (EN 141)

**· Hand protection**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

Wear suitable gloves tested to EN 374

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye/face protection**

Safety glasses (EN 166)

**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Physical state**

Fluid

**· Colour:**

Grey

**· Odour:**

Light

**· Odour threshold:**

Not determined.

**· Melting point/freezing point:**

Not determined

**· Boiling point or initial boiling point and boiling range**

Not determined

**· Flammability**

Not applicable.

**· Lower and upper explosion limit****· Lower:**

Not determined.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part A**

(Contd. of page 4)

· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	60 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Mixture is non-soluble (in water).
· <b>Viscosity:</b>	
· <b>Kinematic viscosity at 20 °C</b>	>20.5 mm <sup>2</sup> /s
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Not miscible / difficult to mix
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density</b>	Not determined
· <b>Relative density at 20 °C</b>	1.5
· <b>Vapour density</b>	Not determined.

**9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	Nil VOC
· <b>Solids content:</b>	100%
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

**Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Heat. Hot surfaces. Sources of ignition. Flames.
- **10.5 Incompatible materials:**
  - Acids
  - Alkalis
  - Strong oxidising agents
  - Reducing agents

(Contd. on page 6)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

Trade name: Semi-flexible Epoxy Adhesive Part A

(Contd. of page 5)

10.6 Hazardous decomposition products: No dangerous decomposition products known

### SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

#### 25068-38-6 Glycidyl Ethers of Bisphenol A resins

Oral LD50 &gt;2,000 mg/kg (Rat) (OECD Test Guideline 420)

Dermal LD50 &gt;2,000 mg/kg (Rat) (OECD Test Guideline 420)

#### 144086-02-2 Tetraacrylate pentaerythritol alkoxy

ErC 50 9.4 mg/l (Algae)

#### 1384855-91-7 2-Propenoic acid, reaction products with dipentaerythritol

ErC 50 &gt;100 mg/l (Algae) (72 hr)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

#### 25068-38-6 Glycidyl Ethers of Bisphenol A resins

EC50 (48 hr) 2.8 mg/l (Daphnia magna) (OECD Test Guideline 202)

EC50 (72 hr) 4.2 mg/l (Pseudokirchneriella subcapitata)

LC50 (96 hr) 1.5 mg/l (Fish) (EEC (1988) 203)

2.7 mg/l (Oncorhynchus mykiss)

NOEC (21 days) 0.3 mg/l (Daphnia magna) (OECD Test Guideline 211)

#### 144086-02-2 Tetraacrylate pentaerythritol alkoxy

EC50 (48 hr) 2.7 mg/l (Crustacea)

LC50 (96 hr) 1.5 mg/l (Fish)

NOEC (21 days) 0.3 mg/l (Fish)

#### 1384855-91-7 2-Propenoic acid, reaction products with dipentaerythritol

EC50 (48 hr) 35 mg/l (Crustacea)

LC50 (96 hr) 13 mg/l (Fish)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

GB

(Contd. on page 7)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

Trade name: Semi-flexible Epoxy Adhesive Part A

(Contd. of page 6)

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

· **ADR, IMDG, IATA** UN3082

#### 14.2 UN proper shipping name

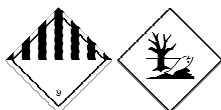
· **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Glycidyl Ethers of Bisphenol A resins)

· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Glycidyl Ethers of Bisphenol A resins), MARINE POLLUTANT

· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Glycidyl Ethers of Bisphenol A resins)

#### 14.3 Transport hazard class(es)

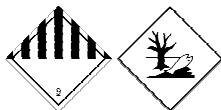
· **ADR**



· **Class** 9 (M6) Miscellaneous dangerous substances and articles.

· **Label** 9

· **IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles.

· **Label** 9

#### 14.4 Packing group

· **ADR, IMDG, IATA** III

#### 14.5 Environmental hazards:

· **Marine pollutant:** Yes  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

#### 14.6 Special precautions for user

· **Warning:** Miscellaneous dangerous substances and articles.

· **Kemler Number:** 90

· **EMS Number:** F-A, S-F

· **Stowage Category** A

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

#### Transport/Additional information:

· **ADR**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **Transport category** 3

(Contd. on page 8)

GB



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 58 (replaces version 57)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part A**

(Contd. of page 7)

· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYCIDYL ETHERS OF BISPHENOL A RESINS), 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - 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.
  - H412 Harmful to aquatic life with long lasting effects.
  - EUH205 Contains epoxy constituents. May produce an allergic reaction.
- **Department issuing data specification sheet:** Environment protection department
- **Abbreviations and acronyms:**
  - ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (UK REACH)
  - PNEC: Predicted No-Effect Concentration (UK REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Skin Sens. 1A: Skin sensitisation – Category 1A
  - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **Data compared to the previous version altered.** \*

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

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

#### 1.1 Product identifier

Trade name: **Semi-flexible Epoxy Adhesive Part B**

Article number: 86448B

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

**Application of the substance / the mixture** Hardening agent / curing agent

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**



health hazard

Repr. 1A

H360F May damage fertility.

STOT RE 1

H372 Causes damage to organs through prolonged or repeated exposure.



corrosion

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.

Eye Dam. 1

H318 Causes serious eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4

H302 Harmful if swallowed.

Skin Sens. 1

H317 May cause an allergic skin reaction.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 1)

**Hazard pictograms**

GHS05    GHS07    GHS08    GHS09

**Signal word** *Danger***Hazard-determining components of labelling:**

2-piperazin-1-ylethylamine  
 bisphenol A  
 2,4,6-tris(dimethylaminomethyl)phenol  
 Benzyl alcohol

**Hazard statements**

H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H360F May damage fertility.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.  
 P280 Wear protective gloves / eye protection.  
 P310 Immediately call a POISON CENTER/doctor.

**Additional information:**

Restricted to professional users.

**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS05    GHS07    GHS08    GHS09

**Signal word** *Danger***Hazard-determining components of labelling:**

2-piperazin-1-ylethylamine  
 bisphenol A  
 2,4,6-tris(dimethylaminomethyl)phenol  
 Benzyl alcohol

**Hazard statements**

H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H360F May damage fertility.  
 H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P201 Obtain special instructions before use.  
 P280 Wear protective gloves / eye protection.  
 P310 Immediately call a POISON CENTER/doctor.

**2.3 Other hazards****Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

(Contd. on page 3)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 2)

**Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319	10-25%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine ⚠ Acute Tox. 3, H311; ⚠ Repr. 2, H361; STOT RE 1, H372; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-25%
CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 01-2119979575-18	Phenol, styrenated ⚠ Aquatic Chronic 2, H411	10-25%
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A ⚠ Repr. 1B, H360F; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	0-10%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1B, H314; ⚠ Skin Sens. 1B, H317; Aquatic Chronic 3, H412	<5%
CAS: 38640-62-9 EINECS: 254-052-6 Reg.nr.: 01-2119565150-48	bis (isopropyl) naphthalene ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<3%

**SVHC**

80-05-7 bisphenol A

**Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information** Instantly remove any clothing soiled by the product.**After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

**After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.**After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

**Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

(Contd. on page 4)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 3)

Inform respective authorities in case product reaches water or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with the eyes and skin.

Open and handle container with care.

**Information about protection against explosions and fires:** Keep breathing equipment ready.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:** Store in cool location.**Information about storage in one common storage facility:** Do not store together with acids.**Further information about storage conditions:**

Store container in a well ventilated position.

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed containers.

**Storage class** 6.1 C**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**DNELs****100-51-6 Benzyl alcohol**

Dermal	Acute systemic effect	40 mg/kg bw/day (Worker)
	Long term systemic effect	8 mg/kg/bw/day (Worker)
Inhalative	Long term systemic effect	22 mg/m3 (Worker)
	Acute systemic effect	110 mg/m3 (Worker)

**140-31-8 2-piperazin-1-ylethylamine**

Dermal	Long term systemic effect	3.33 mg/kg/bw/day (Worker)
Inhalative	Long term systemic effect	10.6 mg/m3 (Worker)
	Acute local effect	80 mg/m3 (Worker)
	Acute systemic effect	10.6 mg/m3 (Worker)

**61788-44-1 Phenol, styrenated**

Dermal	Long term systemic effect	6.25 mg/kg/bw/day (Worker)
Inhalative	Long term systemic effect	11.02 mg/m3 (Worker)

**80-05-7 bisphenol A**

Dermal	Acute systemic effect	0.031 mg/kg bw/day (Worker)
	Long term systemic effect	0.031 mg/kg/bw/day (Worker)
Inhalative	Long term systemic effect	2 mg/m3 (Worker)
	Long term local effect	2 mg/m3 (Worker)
	Acute systemic effect	2 mg/m3 (Worker)

**38640-62-9 bis (isopropyl) naphthalene**

Dermal	Long term systemic effect	4.3 mg/kg/bw/day (Worker)
Inhalative	Long term systemic effect	30 mg/m3 (Worker)

**PNECs****100-51-6 Benzyl alcohol**

PNEC	1 mg/l (Aqua (freshwater))
------	----------------------------

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

### Trade name: Semi-flexible Epoxy Adhesive Part B

(Contd. of page 4)

	2.3 mg/l (Aqua (intermittent)) 0.1 mg/l (Aqua (marine water)) 5.27 mg/kg (Freshwater sediment) 0.527 mg/kg (Marine water sediment) 39 mg/l (Sewage treatment plant)
<b>140-31-8 2-piperazin-1-ylethylamine</b>	
PNEC	0.058 mg/l (Aqua (freshwater)) 0.58 mg/l (Aqua (intermittent)) 0.006 mg/l (Aqua (marine water)) 215 mg/kg (Freshwater sediment) 250 mg/l (Sewage treatment plant)
<b>61788-44-1 Phenol, styrenated</b>	
PNEC	0.001 mg/l (Aqua (freshwater)) 0.014 mg/l (Aqua (intermittent)) 65,778 mg/kg (Freshwater sediment) 65,778 mg/kg (Marine water sediment) 0.17 mg/l (Sewage treatment plant)
<b>80-05-7 bisphenol A</b>	
PNEC	0.018 mg/l (Aqua (freshwater)) 0.011 mg/l (Aqua (intermittent)) 0.018 mg/l (Aqua (marine water)) 1.2 mg/kg (Freshwater sediment) 0.24 mg/kg (Marine water sediment) 320 mg/l (Sewage treatment plant)
<b>90-72-2 2,4,6-tris(dimethylaminomethyl)phenol</b>	
PNEC	0.084 mg/l (Aqua (freshwater)) 0.84 mg/l (Aqua (intermittent)) 0.008 mg/l (Aqua (marine water)) 0.2 mg/l (Sewage treatment plant)
<b>38640-62-9 bis (isopropyl) naphthalene</b>	
PNEC	0.853 mg/kg (Freshwater sediment) 0.085 mg/kg (Marine water sediment) 0.15 mg/l (Sewage treatment plant)

· **Additional information:** The lists that were valid during the compilation were used as basis.

### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A (EN 14387)

A dust mask should be worn if dust is generated in confined spaces during use.

· **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Wear suitable gloves tested to EN 374

(Contd. on page 6)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 5)

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Value for the permeation: Level 6 &gt; 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Safety glasses (EN 166)

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Grey
· <b>Odour:</b>	Ammonia-like
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	Not determined
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.2 Vol % (15C)
· <b>Upper:</b>	10.7 Vol % (15C)
· <b>Flash point:</b>	60 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Mixture is non-soluble (in water).
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>dynamic at 40 °C:</b>	>20.5 mm <sup>2</sup> /sec
· <b>Solubility</b>	
· <b>Water:</b>	Not miscible / difficult to mix
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density</b>	Not determined
· <b>Relative density at 20 °C</b>	1.3
· <b>Vapour density</b>	Not determined.

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	236 g/l VOC
· <b>Solids content:</b>	73.20% (250°C)
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void

(Contd. on page 7)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 6)

· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Heat. Hot surfaces. Sources of ignition. Flames.
- **10.5 Incompatible materials:**  
Strong acids and oxidizing agents  
Aluminium
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

- **LD/LC50 values that are relevant for classification:**

#### 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (rbt)

#### 140-31-8 2-piperazin-1-ylethylamine

Oral	LD50	1,470 mg/kg (Rat)
Dermal	LD50	866 mg/kg (rbt)

#### 80-05-7 bisphenol A

Oral	LD50	3,250 mg/kg (Rat)
Dermal	LD50	3,000 mg/kg (rbt)

#### 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	1,000 mg/kg (Rat)
Dermal	LD50	1,280 mg/kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Reproductive toxicity** May damage fertility.
- **STOT-repeated exposure** Causes damage to organs through prolonged or repeated exposure.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

61788-44-1	Phenol, styrenated	List II
80-05-7	bisphenol A	List I

(Contd. on page 8)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 7)

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### 100-51-6 Benzyl alcohol

EC50	mg/l (Crustacea)
	230 mg/l (Daphnia magna)
	770 mg/l (Pseudokirchneriella subcapitata)
NOEC (72 hr)	310 mg/l (Pseudokirchneriella subcapitata)
NOEC (21 days)	51 mg/l (Daphnia magna)

##### 140-31-8 2-piperazin-1-ylethylamine

EC50 (48 hr)	58 mg/l (Daphnia magna)
EC50 (72 hr)	>1,000 mg/l (Pseudokirchneriella subcapitata)
LC50 (96 hr)	21,090 mg/l (Pimephales promelas)
NOEC (48 hr)	10 (Daphnia magna)

##### 61788-44-1 Phenol, styrenated

EC50 (48 hr)	4.6 mg/l (Daphnia magna)
EC50 (72 hr)	20.42 mg/l (Algae)
NOEC	1.9 mg/l (Oryzias latipes)
NOEC (21 days)	0.2 mg/l (Crustacea)
	1.9 mg/l (Oryzias latipes)

##### 80-05-7 bisphenol A

EC50 (48 hr)	16 mg/l (Daphnia magna)
LC50 (96 hr)	7.5 mg/l (Fish)
NOEC (72 hr)	3 mg/l (Algae)
NOEC	0.025 mg/l (Crustacea) (84 d)

##### 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

EC50	84 mg/l (Desmodesmus subspicatus)
------	-----------------------------------

##### 38640-62-9 bis (isopropyl) naphthalene

EC10	0.014 (Daphnia magna) (48h)
EC50 (48 hr)	1.7 mg/l (Daphnia magna)
LC50 (96 hr)	>0.5 mg/l (Leuciscus Idus)
NOEC (21 days)	0.0118 mg/l (Daphnia magna)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

#### 12.7 Other adverse effects

Remark: Toxic for fish

#### Additional ecological information:

##### General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 9)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 8)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**· **14.1 UN number or ID number**· **ADR, IMDG, IATA** UN3267· **14.2 UN proper shipping name**

· **ADR** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-AMINOETHYLPIPERAZINE), ENVIRONMENTALLY HAZARDOUS

· **IMDG** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-AMINOETHYLPIPERAZINE), MARINE POLLUTANT

· **IATA** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-AMINOETHYLPIPERAZINE)

· **14.3 Transport hazard class(es)**· **ADR**

· **Class** 8 (C7) Corrosive substances.

· **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances.

· **Label** 8

· **IATA**

· **Class** 8 Corrosive substances.

· **Label** 8

· **14.4 Packing group**· **ADR, IMDG, IATA** III· **14.5 Environmental hazards:**

· **Marine pollutant:** Product contains environmentally hazardous substances: bisphenol A  
Yes  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

· **Kemler Number:** Warning: Corrosive substances.  
80

· **EMS Number:** F-A, S-B

· **Segregation groups** Alkalis

· **Stowage Category** A

· **Stowage Code** SW2 Clear of living quarters.

· **Segregation Code** SG35 Stow "separated from" SGG1-acids

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

(Contd. on page 10)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 9)

**· Transport/Additional information:****· ADR****· Limited quantities (LQ)**

5L

**· Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**· Transport category**

3

**· IMDG****· Limited quantities (LQ)**

5L

**· Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**· UN "Model Regulation":**

UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-AMINOETHYLPIPERAZINE), 8, III, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information****· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· Seveso category E2** Hazardous to the Aquatic Environment**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**· National regulations****· Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.**· Substances of very high concern (SVHC) according to UK REACH**

80-05-7 bisphenol A

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360F May damage fertility.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**· Department issuing data specification sheet:** Environment protection department**· Abbreviations and acronyms:**

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

(Contd. on page 11)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 18.01.2023

**Trade name: Semi-flexible Epoxy Adhesive Part B**

(Contd. of page 10)

LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 Repr. 1A: Reproductive toxicity – Category 1A  
 Repr. 1B: Reproductive toxicity – Category 1B  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Data compared to the previous version altered. \***

GB