

Revision: 02.10.2023

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

Printing date 02.10.2023 Version number

Version number 2 (replaces version 1)

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

· 1.1 Product identifier

· Trade name: Epicol 84S Part A

· Article number: 237428A

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

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· Product category PC1 Adhesives, sealants

· Application of the substance / the mixture Adhesives

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

APM Technica AG Max-Schmidheiny-Str.201

CH-9435 HEERBRUGG

**SCHWEIZ** 

· Further information obtainable from:

Tel. +41 71 788 31 00 (At office times only)

E-Mail: msds@apm-technica.com

1.4 Emergency telephone number:

Tox Info Suisse Freiestrasse 16 CH-8032 Zürich

Swiss Emergency phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51

# **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

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 CLP regulation.

Hazard pictograms





GHS07 GHS09

· Signal word Warning

(Contd. on page 2)

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

(Contd. of page 1)

### · Hazard-determining components of labelling:

Bisphenol F epoxide resin

bis[4-(2,3-epoxypropoxy)phenyl]propane

#### · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

#### · 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:

Bisphenol F epoxide resin

bis[4-(2,3-epoxypropoxy)phenyl]propane

#### · Hazard statements

H317 May cause an allergic skin reaction.

#### · Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eve protection / face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · 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 substances listed below with nonhazardous additions.

# · Dangerous components:

CAS: 7440-22-4 Silve

Silver (Powder < 0.0001mm)

110

EINECS: 231-131-3

Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=100)

(Contd. on page 3)

>50-≤100%

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

|                   |   | (Contd. of page 2) |
|-------------------|---|--------------------|
| CAS: 9003-36-5    | Bisphenol F epoxide resin   | >10-<25%           |
|                   | Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | -                  |
| CAS: 1675-54-3    | bis[4-(2,3-epoxypropoxy)phenyl]propane  | ≥5–≤10%            |
| EINECS: 216-823-5 | 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 %  |                    |

<sup>·</sup> 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: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- 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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

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

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 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 disposal information.

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Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

(Contd. of page 3)

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

### · Ingredients 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.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

### · Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

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

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

(Contd. on page 5)

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

· Eye/face protection

(Contd. of page 4)



Tightly sealed goggles

· Body protection: Protective work clothing

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: Silver-coloured

· Odour: Mild

Odour threshold: Not determined.Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined. Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.Flash point: >200 °C

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined. Vapour pressure: Not determined.

Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Pasty

· Important information on protection of health

and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• **Explosive properties:** Product does not present an explosion hazard.

· Solvent content:

· VOC (EC) 0.00 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes
• Explosives Void
• Flammable gases Void
• Aerosols Void

· Oxidising gases Void

(Contd. on page 6)

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

|   |      | (Contd. of page 5) |
|---|------|--------------------|
| · Gases under pressure                  | Void |                    |
| Flammable liquids                       | Void |                    |
| Flammable solids                        | Void |                    |
| · Self-reactive substances and mixtures | Void |                    |
| · Pyrophoric liquids                    | Void |                    |
| Pyrophoric solids                       | Void |                    |
| Self-heating substances and mixtures    | Void |                    |
| Substances and mixtures, which emit     |      |                    |
| flammable gases in contact with water   | Void |                    |
| · Oxidising liquids                     | Void |                    |
| Oxidising solids                        | Void |                    |
| · Organic peroxides                     | Void |                    |
| · Corrosive to metals                   | Void |                    |
| Desensitised explosives                 | 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 No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 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.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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.

(Contd. on page 7)

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Very 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 course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

| · European waste catalogue |  |  |
|----------------------------|--|--|
| 08 04 09*                  | waste adhesives and sealants containing organic solvents or other hazardous substances |  |
| HP4                        | Irritant - skin irritation and eye damage  |  |
| HP13                       | Sensitising  |  |
| HP14                       | Ecotoxic   |  |

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport informa                       | ation   |
|---|---|
| · 14.1 UN number or ID number<br>· ADR, IMDG, IATA  | UN3082  |
| · 14.2 UN proper shipping name<br>· ADR             | 3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (Silver (Powder<br><0.0001mm), Bisphenol F epoxide resin)                 |
| · IMDG  | ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (Silver (Powder<br><0.0001mm), Bisphenol F epoxide resin), MARINE<br>POLLUTANT |
| ·IATA   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver (Powder <0.0001mm), Bisphenol F epoxide resin)                            |
| · 14.3 Transport hazard class(es) · ADR, IMDG, IATA |   |
| ADIT, INIDO, IATA                                   |   |
| Class   | 9 Miscellaneous dangerous substances and articles.  |
| · Label   | 9   |

(Contd. on page 8)

(Contd. of page 6)

Printing date 02.10.2023 Version number 2 (replaces version 1) Revision: 02.10.2023

Trade name: Epicol 84S Part A

| 14.4 Packing group   | (Contd. of page   |
|--|---|
| ADR, IMDG, IATA  | III   |
| 14.5 Environmental hazards:  Marine pollutant: Special marking (ADR):    | Product contains environmentally hazardous substances: Bisphenol F epoxide resin Symbol (fish and tree) Symbol (fish and tree)      |
| Special marking (IATA):  | Symbol (fish and tree)  |
| 14.6 Special precautions for user  | Warning: Miscellaneous dangerous substances and articles.   |
| Hazard identification number (Kemler code): EMS Number: Stowage Category | 90<br>F-A,S-F<br>A  |
| 14.7 Maritime transport in bulk according to IMO instruments             | Not applicable.   |
| Transport/Additional information:  |   |
| ADR<br>Limited quantities (LQ)<br>Excepted quantities (EQ)               | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 m<br>Maximum net quantity per outer packaging: 1000<br>ml            |
| Transport category Tunnel restriction code                               | 3<br>(-)  |
| IMDG<br>Limited quantities (LQ)<br>Excepted quantities (EQ)              | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 m<br>Maximum net quantity per outer packaging: 1000<br>ml            |
| UN "Model Regulation":   | UN 3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (SILVER<br>(POWDER <0.0001MM), BISPHENOL F<br>EPOXIDE RESIN), 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 E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

(Contd. on page 9)

Version number 2 (replaces version 1) Revision: 02.10.2023 Printing date 02.10.2023

Trade name: Epicol 84S Part A

· REGULATION (EU) 2019/1148

(Contd. of page 8)

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

### Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Causes serious eve irritation. H319

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.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - shortterm (acute) aquatic hazard Hazardous to the aquatic environment - long-

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008

· Department issuing SDS: Technology

Contact: msds@apm-technica.com

Date of previous version: 02.10.2023

· Version number of previous version: 1

#### · Abbreviations and acronyms:

term (chronic) aquatic hazard

ADR: Accord relatif au transport international des marchandises dangereuses par route (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) VOC: Volatile Organic Compounds (USA, EU)

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

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

\* Data compared to the previous version altered.