

Printing date 02.10.2023

Version number 2 (replaces version 1)

Revision: 02.10.2023

| SECTION 1: Id undertaking | dentification of the substance/mixture and of t | he company/ |
|--|--|--------------------|
| · 1.1 Product iden | tifier | |
| [.] Trade name: <u>Epi</u> | icol 84S Part A | |
| Sector of Use SU3 Industrial us Product categor | 237428A ntified uses of the substance or mixture and uses advis ses: Uses of substances as such or in preparations at indus y PC1 Adhesives, sealants he substance / the mixture Adhesives | • |
| | e supplier of the safety data sheet upplier: G y-Str.201 | |
| Tel. +41 71 788 3 E-Mail: msds@ap • 1.4 Emergency t Tox Info Suisse Freiestrasse 16 CH-8032 Zürich | tion obtainable from: 31 00 (At office times only) om-technica.com selephone number: y phone number: 145 (24h). From outside of Switzerland: +4 | 1 44 251 51 51 |
| | lazards identification | |
| | ccording to Regulation (EC) No 1272/2008 | |
| GHS09 | environment | |
| • | H400 Very toxic to aquatic life. 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. | |
| | ding to Regulation (EC) No 1272/2008 assified and labelled according to the CLP regulation. | |
| GHS07 GHS09 | | |
| · Signal word War | | (Contd. on page 2) |
| | | (Contd. on page 2) |

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IE

Trade name: Epicol 84S Part A

| | (Contd. of page 1 |
|---|---|
| | ng components of labelling: |
| Bisphenol F epoxid | |
| | opoxy)phenyl]propane |
| Hazard statement | |
| H315 Causes skin | |
| H319 Causes seric | |
| | n allergic skin reaction. |
| | aquatic life with long lasting effects. |
| Precautionary sta | |
| | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | Avoid release to the environment. |
| | Wear protective gloves / eye protection / face protection. |
| | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact |
| | lenses, if present and easy to do. Continue rinsing. |
| | If skin irritation or rash occurs: Get medical advice/attention. |
| | Dispose of contents/container in accordance with local/regional/national/ |
| | international regulations. |
| Additional inform | |
| | nstituents. May produce an allergic reaction. |
| | ages where the contents do not exceed 125 ml |
| Hazard pictogram | IS |
| | ng components of labelling: de resin |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regular | de resin ppoxy)phenyl]propane s n allergic skin reaction. itements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regular 2.3 Other hazards | de resin ppoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regular 2.3 Other hazards Results of PBT ar | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. hd vPvB assessment |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl | de resin ppoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. |
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| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl SECTION 3: Co | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. ble. |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regular 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures Description: Mixtu | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. pomposition/information on ingredients ure of substances listed below with nonhazardous additions. |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures Description: Mixtu | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. ble. pomposition/information on ingredients ure of substances listed below with nonhazardous additions. onents: |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures Description: Mixtu Dangerous compo CAS: 7440-22-4 | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. ble. pomposition/information on ingredients ure of substances listed below with nonhazardous additions. onents: Silver (Powder <0.0001mm) >50–≤100% |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures Description: Mixtu Dangerous compo CAS: 7440-22-4 | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. ble. pomposition/information on ingredients are of substances listed below with nonhazardous additions. onents: Silver (Powder <0.0001mm) 3 ♦ Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 |
| Bisphenol F epoxid bis[4-(2,3-epoxypro Hazard statement H317 May cause a Precautionary sta P261 Avoid P280 Wear P333+P313 If skin P501 Dispos regula 2.3 Other hazards Results of PBT ar PBT: Not applicabl vPvB: Not applicabl vPvB: Not applicabl SECTION 3: Co 3.2 Mixtures Description: Mixtu Dangerous compo CAS: 7440-22-4 | de resin popoxy)phenyl]propane s n allergic skin reaction. tements breathing dust/fume/gas/mist/vapours/spray. protective gloves / eye protection / face protection. irritation or rash occurs: Get medical advice/attention. se of contents/container in accordance with local/regional/national/international tions. d vPvB assessment le. ble. ble. pomposition/information on ingredients ure of substances listed below with nonhazardous additions. onents: Silver (Powder <0.0001mm) >50–≤100% |

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| CAS: 9003-36-5 | Bisphenol F epoxide resin | (Contd. of page 2) >10-<25% |
|-------------------------------------|--|-----------------------------|
| 040. 3003-30-3 | Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | |
| CAS: 1675-54-3 EINECS: 216-823-5 | bis[4-(2,3-epoxypropoxy)phenyl]propane ♦ 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 % | ≥5–≤10% |
| Additional informat | ion : For the wording of the listed bazard phrases refer to section | n 16 |

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_size)

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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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.

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· Eye/face protection



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 viscosity Not determined. · Dynamic: Not determined. · Solubility Not miscible or difficult to mix. · water: Partition coefficient n-octanol/water (log Not determined. value) · 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)

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| | | (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.

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| | | (Contd. of page 6) | |
|--|---|--------------------|--|
| | ocrine disrupting properties | / | |
| | ict does not contain substances with endocrine disrupting properties. | | |
| | er adverse effects | | |
| | Very toxic for fish | | |
| | al ecological information: | | |
| · General r | | | |
| | zard class 2 (German Regulation) (Self-assessment): hazardous for water | | |
| | ow product to reach ground water, water course or sewage system. | | |
| | drinking water if even small quantities leak into the ground. phous for fish and plankton in water bodies. | | |
| | | | |
| Very toxio | Very toxic for aquatic organisms | | |
| | | | |
| | | | |
| SECTIO | N 13: Disposal considerations | | |
| | N 13: Disposal considerations | | |
| | te treatment methods | | |
| · 13.1 Wast · Recomme | te treatment methods | n sewage | |
| · 13.1 Wast · Recomme | te treatment methods endation | n sewage | |
| • 13.1 Was t • Recomm Must not b system. | te treatment methods endation | n sewage | |
| • 13.1 Was t • Recomm Must not b system. | te treatment methods endation be disposed together with household garbage. Do not allow product to reach n waste catalogue | | |
| • 13.1 Wast • Recommo Must not b system. • Europear | te treatment methods endation be disposed together with household garbage. Do not allow product to reach n waste catalogue | | |
| • 13.1 Wast • Recommo Must not b system. • Europear | te treatment methods endation be disposed together with household garbage. Do not allow product to reach waste catalogue waste adhesives and sealants containing organic solvents or other hazard | | |

Ecotoxic

HP14

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

| 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. (Silver (Powder <0.0001mm), Bisphenol F epoxide resin) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver (Powder <0.0001mm), Bisphenol F epoxide resin), MARINI POLLUTANT ENVIRONMENTALLY HAZARDOUS |
| | SUBSTANCE, LIQUID, N.O.S. (Silver (Powder <0.0001mm), Bisphenol F epoxide resin) |
| 14.3 Transport hazard class(es) | |
| ADR, IMDG, IATA | |
| Class | 9 Miscellaneous dangerous substances and articles. |
| | |

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|---|---|
| 14.4 Packing group ADR, IMDG, IATA | III |
| 14.5 Environmental hazards: | Product contains environmentally hazardous substances: Bisphenol F epoxide resin |
| Marine pollutant: | Symbol (fish and tree) |
| Special marking (ADR): Special marking (IATA): | Symbol (fish and tree) Symbol (fish and tree) |
| , | |
| 14.6 Special precautions for user | Warning: Miscellaneous dangerous substances and articles. |
| Hazard identification number (Kemler co | • |
| EMS Number: | F-A,S-F |
| · Stowage Category | A |
| 14.7 Maritime transport in bulk accordin IMO instruments | g to Not applicable. |
| · Transport/Additional information: | |
| ADR Limited quantities (LQ) Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| Transport category Tunnel restriction code | 3 (-) |
| IMDG Limited quantities (LQ) Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SILVER (POWDER <0.0001MM), BISPHENOL F 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.

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according to 1907/2006/EC, Article 31

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REGULATION (EU) 2019/1148

 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 Verv 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

| č č (<i>, ,</i> | |
|---|--|
| Skin corrosion/irritation | The classification of the mixture is generally |
| Serious eye damage/irritation | based on the calculation method using |
| Skin sensitisation | substance data according to Regulation (EC) No |
| Hazardous to the aquatic environment - short- | 1272/2008. |
| term (acute) aquatic hazard | |
| Hazardous to the aquatic environment - long- | |
| term (chronic) aquatic hazard | |

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:

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.

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



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| SECTION 1: Identification of the substance/mixture and of the company/ undertaking |
|---|
| · 1.1 Product identifier |
| · Trade name: Epicol 84S Part B |
| Article number: 237428B 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 |
| |
| Swiss Emergency phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51 |
| 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 |
| 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 • GHS05 corrosion |
| 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 • GHS05 corrosion |
| 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 • GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. |
| 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 • GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. |
| 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 GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS09 environment Aquatic Acute 1 H400 Very toxic to aquatic life. |
| Swiss Emergency phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51 SECTION 2: Hazards identification • Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 • GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. • GHS09 environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. |
| 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 Ø GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Eye Dam. 1 H318 Causes serious eye damage. Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Acute 1 H400 Very toxic to aquatic life with long lasting effects. Ø GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. 2.2 Label elements |
| 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 |
| 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 Ø GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Eye Dam. 1 H318 Causes serious eye damage. Ø GHS09 environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. Ø GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. • 2.2 Label elements |

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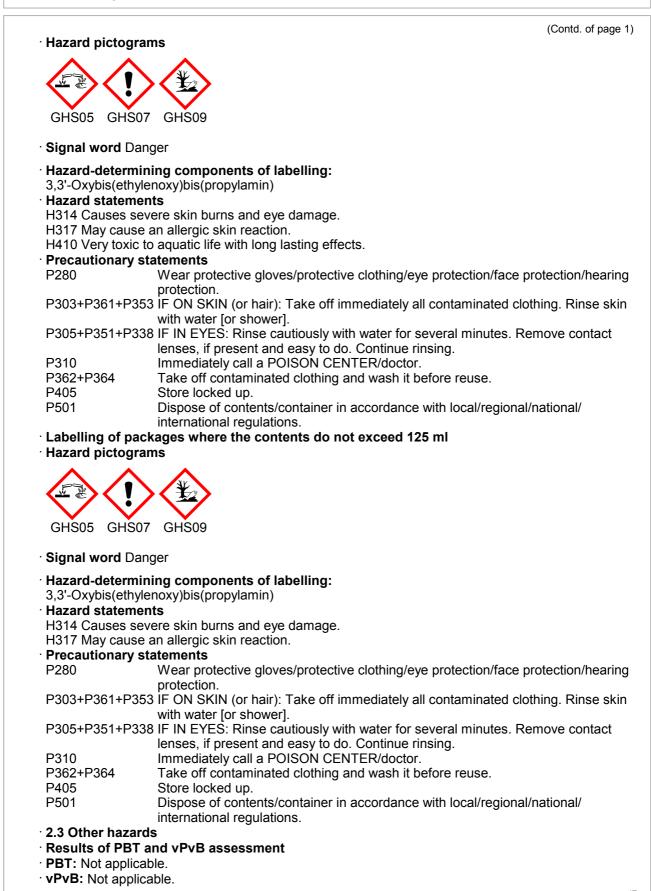
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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous comport | nents: | |
|------------------------|--|-----------|
| CAS: 7440-22-4 | Silver (Powder <0.0001mm) | >50–≤100% |
| EINECS: 231-131-3 | Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=100) | |
| CAS: 4246-51-9 | 3,3'-Oxybis(ethylenoxy)bis(propylamin) ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Skin Sens. 1, H317 | >10–≤25% |
| Additional information | tion. For the wording of the listed bezord phrases refer to eastion | 16 |

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. Then consult a doctor.

• After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 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
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
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). Use neutralising agent. 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. (Contd. on page 4)

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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: Keep respiratory protective device available.

- · 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. 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.

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· Eye/face protection



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: Amine-like · Odour threshold: Not determined. • Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range 110 °C · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. · Decomposition temperature: Not determined. · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility · water: Not miscible or difficult to mix. Partition coefficient n-octanol/water (log Not determined. value) Vapour pressure at 20 °C: 0 hPa 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 % · Solids content: 0.0 % · Change in condition Not determined. · Evaporation rate Information with regard to physical hazard classes Explosives Void Flammable gases Void · Aerosols Void (Contd. on page 6)

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|---------------------------------------|------|-------------------|
| · Oxidising gases | Void | |
| · 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 severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- 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.
- \cdot STOT-single exposure Based on available data, the classification criteria are not met.
- \cdot 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
- \cdot Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- \cdot 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.

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- · vPvB: Not applicable.
- · 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. Must not reach sewage water or drainage ditch undiluted or unneutralised. 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 |
| HP8 | Corrosive |
| HP13 | Sensitising |
| HP14 | Ecotoxic |

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport information | on |
|---|--|
| 14.1 UN number or ID number ADR, IMDG, IATA | UN2735 |
| 14.2 UN proper shipping name ADR MDC LATA | 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-Oxybis(ethylenoxy)bis(propylamin)), ENVIRONMENTALLY HAZARDOUS |
| IMDG, IATA 14.3 Transport hazard class(es) | AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'- Oxybis(ethylenoxy)bis(propylamin)) |
| ADR | |
| · Class | 8 Corrosive substances. |
| ·Label | 8 |
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|---|--|
| IMDG, IATA | |
| · Class · Label | 8 Corrosive substances. 8 |
| 14.4 Packing group ADR, IMDG, IATA | 111 |
| • 14.5 Environmental hazards: • Special marking (ADR): | Symbol (fish and tree) |
| 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code | Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| Transport/Additional information: | |
| ADR · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 1000 ml |
| Transport category Tunnel restriction code | 3 E |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 1000 ml |
| UN "Model Regulation": | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (3,3'-OXYBIS(ETHYLENOXY) BIS(PROPYLAMIN)), 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 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

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in

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| None of the ingredients is listed. | electrical and electronic equipment – Annex II | | |
|---|---|--|---|
| • REGULATION (EU) 2019/1148 | | | |
| Annex I - RESTRICTED EXPLOSIVES PRECU | RSORS (Upper limit value for the purpose of | | |
| licensing under Article 5(3)) | | | |
| None of the ingredients is listed. | | | |
| Annex II - REPORTABLE EXPLOSIVES PREC | URSORS | | |
| <u> </u> | 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 rul Community and third countries in drug prece |
| None of the ingredients is listed. | | | |
| 15.2 Chemical safety assessment: A Chemica | al Safety Assessment has not been carried out. | | |
| | - | | |
| SECTION 16: Other information | | | |
| This information is based on our present knowled for any specific product features and shall not es This Safety Data Sheets is in compliance with R amended by Regulation (EU) 2020/878. | | | |
| Relevant phrases H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting etails | | | |
| Classification according to Regulation (EC) I | No 1272/2008 | | |
| Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - short- term (acute) aquatic hazard Hazardous to the aquatic environment - long- term (chronic) aquatic hazard | 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: 2 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchand the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and La EINECS: European Inventory of Existing Commercial Chem ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - at Aquatic Chronic 1: Hazardous to the aquatic environment - | nical Substances Chemical Society) 1 cute aquatic hazard – Category 1 long-term aquatic hazard – Category 1 | | |