$SDS_GB-AM - 6N - 400001015270$

| SAFETY DATA SHEE | Т |
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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: |
|---------|----------------|
| 1.3 | 26.07.2023 |

| SDS Number: | Date of last issue: 17.10.2022 |
|--------------|---------------------------------|
| 400001015270 | Date of first issue: 28.06.2018 |
| | Print Date 10.05.2025 |

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

1.1 Product identifier

Trade name

Use of the

: ARALDITE® REPAIR

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

| Substance/Mixture | |
|--|--|
| Recommended restrictions on use | : For industrial use only. |
| 1.3 Details of the supplier of the | e safety data sheet |
| Company | : HUNTSMAN ADVANCED MATERIALS (UK) LIMITED |
| Address | : Ickleton Road, Duxford, Cambridgeshire |
| Telephone | : +41 61 299 20 41 |
| E-mail address of person responsible for the SDS | : Global_Product_EHS_AdMat@huntsman.com |
| 1.4 Emergency telephone numb | er |

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Skin irritation, Category 2 | H315: Causes skin irritation. |
|---|--|
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARALDITE® REPAIR

| Version | Revision Date: |
|---------|----------------|
| 1.3 | 26.07.2023 |

SDS Number: 400001015270 Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Hazard pictograms | : | | |
|--------------------------|---|---|--|
| Signal word | : | Warning | |
| Hazard statements | : | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. | |
| Precautionary statements | : | Prevention: | |
| | | P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. | |
| | | Response: | |
| | | P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. | |

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide

2.3 Other hazards

1) This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concent ration (% w/w) |
|---|---|---|------------------------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]propane | 1675-54-3 216-823-5 603-073-00-2 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 20 - < 25 |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: | SDS Number: |
|---------|----------------|--------------|
| 1.3 | 26.07.2023 | 400001015270 |

Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

| | | specific concentration limit Skin Irrit. 2; H315 >= 5 % Eye Irrit. 2; H319 >= 5 % | |
|--|---------------|--|---------------|
| Reaction products of pentaerythritol, propoxylated and | Not Assigned | Skin Sens. 1B; H317 Aquatic Chronic 3; | >= 2.5 - < 10 |
| 1-chloro-2,3-epoxypropane with | | H412 | |
| hydrogen sulfide | | | |
| Substances with a workplace expe | osure limit : | | |
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | | >= 30 - |
| | 238-877-9 | | < 50 |

For explanation of abbreviations see section 16.

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur. |
|----------------------------|---|---|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact | : | If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revis |
|---------|-------|
| 1.3 | 26.07 |

ision Date: 7.2023 SDS Number: 400001015270



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Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

| 5.1 | Extinguishing media | | |
|-----|---|-----|---|
| | Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
| | Unsuitable extinguishing media | : | Exercise caution when using a high volume water jet as it may scatter and spread fire |
| 5.2 | Special hazards arising from | the | substance or mixture |
| | Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| | Hazardous combustion products | : | Carbon oxides Halogenated compounds Sulphur oxides |
| 5.3 | Advice for firefighters | | |
| | Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| | Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| | Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, protective equipment and emergency procedures | | | |
|---|---|--|--|
| Personal precautions | : | Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. | |
| 6.2 Environmental precautions | | | |

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| HU | NT | SN | ЛА | N |
|----|----|----|----|---|
| | | | | |

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| Version | Revision Date: | SDS Number: | Date of last issue: 17.10.2022 |
|---------|----------------|--------------|---------------------------------|
| 1.3 | 26.07.2023 | 400001015270 | Date of first issue: 28.06.2018 |

Print Date 10.05.2025

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | : | Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Hygiene measures | : | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. |

7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage areas and containers | : | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. |
|---|---|--|
| Advice on common storage | : | For incompatible materials please refer to Section 10 of this SDS. |
| Recommended storage temperature | : | 2 - 40 °C |
| Further information on storage stability | : | Stable under normal conditions. |

7.3 Specific end use(s)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| HU | NT | SN | ЛА | |
|----|----|----|----|--|
| | | | | |

Enriching lives through innovation

| Version | Revision Date: | SDS Number: | Date of last issue: 17.10.2022 |
|---------|----------------|--------------|---------------------------------|
| 1.3 | 26.07.2023 | 400001015270 | Date of first issue: 28.06.2018 |

Print Date 10.05.2025

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------------|-------------------------------------|-------------------------------|--------------------|------------|
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | TWA (Respirable dust) | 1 mg/m3 | GB EH40 |
| | | TWA (Respirable dust) | 0.1 mg/m3 | 2004/37/EC |
| Further information | information Carcinogens or mutagens | | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|-----------------|-------------------------------|------------------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]p ropane | Workers | Inhalation | Long-term systemic effects | 4.93 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.75 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.87 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.0893 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 0.5 mg/kg bw/day |
| Reaction products of pentaerythritol, propoxylated and 1- chloro-2,3- epoxypropane with hydrogen sulfide | Workers | Inhalation | Long-term systemic effects | 22 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 2.7 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 6.52 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 1.61 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1.9 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|-----------------------------|---------------------------|-----------------|
| bis-[4-(2,3- | Fresh water | 0.006 mg/l |
| epoxipropoxi)phenyl]propane | | |
| | Marine water | 0.001 mg/l |
| | Fresh water sediment | 0.341 mg/kg dry |
| | | weight (d.w.) |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | |
|---------|--|
| 1.3 | |

Revision Date: 26.07.2023

SDS Number: 400001015270

Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

| | Marine sediment | 0.034 mg/kg dry weight (d.w.) |
|---|-----------------------------|----------------------------------|
| | Soil | 0.065 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 10 mg/l |
| | Secondary Poisoning | 11 mg/kg |
| Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide | Fresh water | 70 µg/l |
| | Remarks: Assessment Factors | |
| | Marine water | 7 µg/l |
| | Remarks: Assessment Factors | |
| | Sewage treatment plant | 10 mg/l |
| | Remarks: Assessment Factors | |
| | Fresh water sediment | 0.322 mg/kg dry weight (d.w.) |
| | Remarks:Equilibrium method | |
| | Marine sediment | 0.032 mg/kg dry weight (d.w.) |
| | Remarks:Equilibrium method | |
| | Soil | 0.023 mg/kg dry weight (d.w.) |
| | Remarks:Equilibrium method | |

8.2 Exposure controls

| Personal protective equipme | ent | |
|---|-----|---|
| Eye/face protection | : | Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. |
| Hand protection Material Break through time | | butyl-rubber > 8 h |
| Material | : | Solvent-resistant gloves (butyl-rubber) |
| Material Break through time | : | Nitrile rubber 10 - 480 min |
| Remarks | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Skin and body protection | : | Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Respiratory protection | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates |



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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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| ARAL | DITE® REPAIR | | |
|----------------|---------------------------|-----------------------------|---|
| Version 1.3 | Revision Date: 26.07.2023 | SDS Number: 400001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
| | | | Print Date 10.05.2025 |
| | | • | are within recommended exposure guidelines. ould conform to EN 14387 |
| F | ilter type | : Combined part | iculates and organic vapour type (A-P) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | : paste |
|---|---|
| Colour | : grey |
| Odour | : No data is available on the product itself. |
| Odour Threshold | : No data is available on the product itself. |
| рН | : substance/mixture is non-soluble (in water) |
| Melting point/freezing point | : No data is available on the product itself. |
| Boiling point | : No data is available on the product itself. |
| Flash point | : > 200 °C Method: Pensky-Martens closed cup |
| Flammability (solid, gas) | : No data is available on the product itself. |
| Upper explosion limit / Upper flammability limit | : No data is available on the product itself. |
| Lower explosion limit / Lower flammability limit | : No data is available on the product itself. |
| Vapour pressure | : No data is available on the product itself. |
| Relative vapour density | : No data is available on the product itself. |
| Relative density | : 1.7 (25 °C) |
| Density | : 1.7 g/cm3 (25 °C) |
| Solubility(ies) Water solubility | : insoluble (20 °C) |
| Solubility in other solvents | : No data is available on the product itself. |
| Partition coefficient: n- octanol/water | : No data is available on the product itself. |
| Auto-ignition temperature | : No data is available on the product itself. |
| Decomposition temperature | : No data is available on the product itself. |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: 26.07.2023 | SDS Number: | Date of last issue: 17.10.2022 |
|---------|---------------------------|--------------|---------------------------------|
| 1.3 | | 400001015270 | Date of first issue: 28.06.2018 |
| | | | Print Date 10.05.2025 |

Viscosity

: No data is available on the product itself.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids Strong bases Strong oxidizing agents Reducing agents

10.6 Hazardous decomposition products

| Hazardous decomposition | : carbon dioxide |
|-------------------------|-----------------------|
| products | carbon monoxide |
| | Halogenated compounds |
| | Sulphur Oxides |

SECTION 11: Toxicological information

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

Acute toxicity

Components: bis-[4-(2,3-epoxipropoxi)phenyl]propane: Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose.



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR



| | Revision Date: 26.07.2023 | SDS Number: 400001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
|--|---|--|---|
| | | | Print Date 10.05. |
| Acute | e dermal toxicity | | le and female): > 2,000 mg/kg |
| | | |) Test Guideline 402 |
| | | Assessment: I toxicity | he substance or mixture has no acute derm |
| | tion products of pen ogen sulfide: | taerythritol, propoxy | lated and 1-chloro-2,3-epoxypropane with |
| Acute | e oral toxicity | | le and female): 2,600 mg/kg |
| | | Method: OECE | D Test Guideline 401 |
| Acute | e inhalation toxicity | : LC50 (Rat, ma | le and female): > 0.1 mg/l |
| | | Exposure time | |
| | | Test atmosphe | |
| | | Method: OECE GLP: no | D Test Guideline 403 |
| | | | he substance or mixture has no acute |
| | | inhalation toxic | |
| Acute | e dermal toxicity | : LD50 (Rabbit, | male and female): > 10,200 mg/kg |
| | | | D Test Guideline 402 |
| | | GLP: no | |
| | | Assessment: T | he substance or mixture has no acute derm |
| | corrosion/irritation | toxicity | |
| <u>Com</u> | ponents: | | |
| <u>Com</u> bis-[4 | <u>ponents:</u> 4-(2,3-epoxipropoxi)p | bhenyl]propane: | |
| Com bis-[4 Spec | <u>ponents:</u> 4-(2,3-epoxipropoxi)p | | |
| Com bis-[4 Spec Expo Asse | ponents: 4-(2,3-epoxipropoxi)p sies sure time ssment | ohenyl]propane: : Rabbit : 4 h : Irritating to skir | |
| Com bis-[4 Spec Expo Asse Meth | ponents: 4-(2,3-epoxipropoxi)p ies sure time ssment od | ohenyl]propane: : Rabbit : 4 h : Irritating to skir : OECD Test Gu | uideline 404 |
| Com bis-[4 Spec Expo Asse | ponents: 4-(2,3-epoxipropoxi)p ies sure time ssment od | ohenyl]propane: : Rabbit : 4 h : Irritating to skir | uideline 404 |
| Com bis-[4 Spec Expo Asse Meth Resu | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lt etion products of pen | ohenyl]propane: : Rabbit : 4 h : Irritating to skir : OECD Test Gu : Irritating to skir | uideline 404 n. |
| Com bis-[4 Spec Expo Asse Meth Resu Resu | ponents: 4-(2,3-epoxipropoxi)p ies isure time ssment od ilt etion products of pen ogen sulfide: | ohenyl]propane: : Rabbit : 4 h : Irritating to skir : OECD Test Gu : Irritating to skir taerythritol, propoxy | uideline 404 n. |
| Com bis-[4 Spec Expo Asse Meth Resu Resu Spec | ponents: 4-(2,3-epoxipropoxi)p ies isure time ssment od ilt etion products of pen ogen sulfide: | ohenyl]propane: : Rabbit : 4 h : Irritating to skir : OECD Test Gu : Irritating to skir | uideline 404 n. Iated and 1-chloro-2,3-epoxypropane with |
| Com bis-[4 Spec Expo Asse Meth Resu Resu Spec | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit etion products of pen ogen sulfide: lies ssment | bhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu | uideline 404 n. I ated and 1-chloro-2,3-epoxypropane witl on uideline 404 |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit ction products of pen ogen sulfide: lies ssment od | abhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation No skin irritation | uideline 404 n. I ated and 1-chloro-2,3-epoxypropane wit l on uideline 404 |
| Com bis-[4 Spec Expo Asse Meth Resu Reac hydr Spec Asse Meth | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit ction products of pen ogen sulfide: lies ssment od | bhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu | uideline 404 n. I ated and 1-chloro-2,3-epoxypropane witl on uideline 404 |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu GLP Spec | ponents: 4-(2,3-epoxipropoxi)p ies isure time ssment od ilt etion products of pen ogen sulfide: ies ssment od ilt | abhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation Yes reconstructed | uideline 404 n. Iated and 1-chloro-2,3-epoxypropane with n uideline 404 on human epidermis (RhE) |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu GLP Spec Asse | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit etion products of pen ogen sulfide: lies ssment od lit | abhenyl]propane: Rabbit 4 h Irritating to skin OECD Test Gu Irritating to skin taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation yes reconstructed I No skin irritation | uideline 404 n. I ated and 1-chloro-2,3-epoxypropane wit l n uideline 404 n human epidermis (RhE) on |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu GLP Spec | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit etion products of pen ogen sulfide: lies ssment od lit | abhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation Yes reconstructed | uideline 404 n. I lated and 1-chloro-2,3-epoxypropane wit l n uideline 404 on human epidermis (RhE) on uideline 439 |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu GLP Spec Asse Meth Resu | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit etion products of pen ogen sulfide: lies ssment od lit | abhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation yes reconstructed I No skin irritation OECD Test Gu No skin irritation Yes reconstructed I No skin irritation OECD Test Gu No skin irritation OECD Test Gu No skin irritation OECD Test Gu No skin irritation | uideline 404 n. I lated and 1-chloro-2,3-epoxypropane wit l n uideline 404 on human epidermis (RhE) on uideline 439 on |
| Com bis-[4 Spec Expo Asse Meth Resu Spec Asse Meth Resu GLP Spec Asse Meth | ponents: 4-(2,3-epoxipropoxi)p lies sure time ssment od lit tion products of pen ogen sulfide: lies ssment od lit lies | abhenyl]propane: Rabbit 4 h Irritating to skir OECD Test Gu Irritating to skir taerythritol, propoxy Rabbit No skin irritation OECD Test Gu No skin irritation yes reconstructed I No skin irritation OECD Test Gu No skin irritation Yes reconstructed I No skin irritation OECD Test Gu No skin irritation OECD Test Gu No skin irritation OECD Test Gu No skin irritation | uideline 404 n. I lated and 1-chloro-2,3-epoxypropane wit l n uideline 404 n human epidermis (RhE) n human epidermis (RhE) |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: | SDS Number: |
|---------|----------------|--------------|
| 1.3 | 26.07.2023 | 400001015270 |



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Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

Serious eye damage/eye irritation

Components:

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

| Species | : | Rabbit |
|------------|---|-------------------------|
| Assessment | : | Irritating to eyes. |
| Method | : | OECD Test Guideline 405 |
| Result | : | Irritating to eyes. |

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide:

| Species | : | Rabbit |
|------------|---|-------------------------|
| Assessment | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |
| GLP | : | no |

Respiratory or skin sensitisation

Components:

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

| Exposure routes : Species : Method : | Mouse OECD Test Guideline 429 |
|--|--|
| Result : | The product is a skin sensitiser, sub-category 1B. |

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide:

| Test Type | : LLNA (Local Lymph Node Assay) |
|-----------------|--|
| Exposure routes | : Skin |
| Species | : Mouse |
| Assessment | : Probability or evidence of low to moderate skin sensitisation rate in humans |
| Method | : OECD Test Guideline 429 |
| Result | : Probability or evidence of low to moderate skin sensitisation rate in humans |

Germ cell mutagenicity

Components:

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

| Genotoxicity in vitro | Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: without metabolic activation Result: positive |
|-----------------------|--|
| | Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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| ersion 3 | Revision Date: 26.07.2023 | SDS Number: 400001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
|---------------|--|--|---|
| | | | Print Date 10.05.2025 |
| | | Result: nega | tive |
| Genot | oxicity in vivo | : Test Type: in Species: Mou Cell type: Ge Application R Dose: 3333, Result: nega | use (male) erm Route: Oral 10000 mg/kg |
| | | Species: Rat Cell type: So Application R Dose: 50,250 | matic Route: Oral 0,500,1000 mg/kg bw/day CD Test Guideline 488 |
| | ion products of pent gen sulfide: | aerythritol, propo | cylated and 1-chloro-2,3-epoxypropane with |
| Genot | oxicity in vitro | Test system: Metabolic ac | everse mutation assay Salmonella typhimurium tivation: with and without metabolic activation CD Test Guideline 471 tive |
| | | Test system: Metabolic ac | hromosome aberration test in vitro Human lymphocytes tivation: with and without metabolic activation CD Test Guideline 473 tive |
| | | Test system: Metabolic ac | ene mutation test Chinese hamster lung cells tivation: with and without metabolic activation CD Test Guideline 476 tive |
| Carcir | nogenicity | | |
| <u>Comp</u> | onents: | | |
| - | -(2,3-epoxipropoxi)p | | |
| Expos Dose | ation Route ure time ency of Treatment L d | : 7 days/week : 15 mg/kg bw | |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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| rsion | Revision Date: 26.07.2023 | SDS Number: 400001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
| | | | Print Date 10.05.202 |
| Expos Dose Frequ NOEL Metho Resul | cation Route sure time lency of Treatment - od t | Mouse, male Dermal 24 month(s) 0, 0.1, 10, 100 for a days/week 0.1 mg/kg body OECD Test Gu negative | weight ideline 453 |
| Targe | et Organs | : Digestive organ | S |
| Expos Dose | cation Route sure time lency of Treatment - od | Rat, female Dermal 24 month(s) 0.1, 100, 1000 5 days/week 100 mg/kg body OECD Test Gu negative | / weight |
| Expos Dose Frequ NOAE Metho Resul | cation Route sure time lency of Treatment EL od | Rat, female Oral 24 month(s) 0, 2, 15, or 100 7 days/week 100 mg/kg bw/c OECD Test Gu negative Digestive organ | day ideline 453 |
| Expos Dose Frequ NOEL Metho Resul | cation Route sure time lency of Treatment - od | Rat, females Oral 24 month(s) 0, 2, 15, or 100 7 days/week 2 mg/kg bw/day OECD Test Gu negative Digestive organ | / ideline 453 |
| Dona | ductivo tovicity | | |
| - | oductive toxicity ponents: | | |
| - | -(2,3-epoxipropoxi)p | henvilnronane | |
| - | s on fertility | | |

Application Route: Oral

Duration of Single Treatment: 238 d Frequency of Treatment: 1 daily

Symptoms: No adverse effects Method: OECD Test Guideline 416

Dose: 0, 50, 180, 540 or 750 milligram per kilogram

Result: No effects on fertility and early embryonic

General Toxicity - Parent: NOEL: 540 mg/kg body weight General Toxicity F1: NOEL: 750 mg/kg body weight

| | Y DATA SHEET to REACH Regulation (EC) | No 1907/2006 as amond | | <u>HUNTSMAN</u> |
|--------------------------------|--|--|--|---|
| Regulation | s SI 2019/758 | | | Enriching lives through innovation |
| | DITE® REPAIR | | | |
| Version | Revision Date: 26.07.2023 | SDS Number: 400001015270 | | sue: 17.10.2022 sue: 28.06.2018 |
| _ | | | | Print Date 10.05.2025 |
| | | dovelopment | ioro dotostad | |
| | | development w | | |
| | ts on foetal opment | Duration of Sin Frequency of T General Toxici Developmenta Method: Other | ute: Dermal 00 or 300 milligrar gle Treatment: 28 Treatment: 1 daily ty Maternal: NOA I Toxicity: NOAEL | 3 d |
| | | Duration of Sin Frequency of T General Toxici Developmenta Method: OECE | it, female ute: Oral 0 or 180 milligram gle Treatment: 13 Treatment: 1 daily ty Maternal: NOAl | 3 d EL: 60 mg/kg body weight : 180 mg/kg body weight |
| | | Duration of Sin Frequency of T General Toxici Developmenta Method: OECE | emale ute: Oral 30 and 540 milligra gle Treatment: 10 Treatment: 1 daily ty Maternal: NOA |) d EL: 180 mg/kg body weight : > 540 mg/kg body weight |
| STO | Γ - single exposure | | | |
| No da | ata available | | | |
| | F - repeated exposure | | | |
| | ata available ated dose toxicity | | | |
| - | ponents: | | | |
| | <u>ponents.</u> 4-(2,3-epoxipropoxi)ph | envilnronane: | | |
| Spec NOAI Applie Expo | ies EL cation Route sure time per of exposures | : Rat, male and : 50 mg/kg : oral (gavage) : 14 Weeks : 7 d : 0, 50, 250, 100 : OECD Test Gu | 00 mg/kg/day | |
| Spec NOAI Applie | | : Rat, male and : >= 10 mg/kg : Skin contact | female | |

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

SDS Number: 400001015270

ARALDITE® REPAIR

Revision Date:

26.07.2023

Version

1.3



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Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

| Exposure time Number of exposures Dose Method | : | 13 Weeks 5 d 0, 10, 100, 1000 mg/kg/day OECD Test Guideline 411 |
|---|---|---|
| Species NOAEL Application Route Exposure time Number of exposures Dose Method | : | Mouse, male 100 mg/kg Skin contact 13 Weeks 3 d 0, 1, 10, 100 mg/kg/day OECD Test Guideline 411 |

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide:

| Species | : Rat, male and female | |
|-------------------|------------------------------|---|
| NOAEL | : 75 mg/kg | |
| Application Route | : oral (gavage) | |
| Dose | : 75, 250 and 1000 mg/kg bw/ | ď |
| Method | : OECD Test Guideline 408 | |
| GLP | : yes | |
| | | |

:

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure No data available Toxicology, Metabolism, Distribution No data available Neurological effects No data available Further information No data available

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Ecotoxicology Assessment

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| ersion 3 | Revision Date: 26.07.2023 | | 9S Number: 0001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
|------------------|---|------|---|--|
| | | | | Print Date 10.05.20 |
| Chron | ic aquatic toxicity | : | Harmful to aquat | ic life with long lasting effects. |
| <u>Comp</u> | onents: | | | |
| bis-[4 | -(2,3-epoxipropoxi)phe | eny |]propane: | |
| Toxici | ty to fish | : | Exposure time: 9 | chus mykiss (rainbow trout)): 2 mg/l 16 h Fest Guideline 203 |
| | ty to daphnia and other c invertebrates | : | Exposure time: 4 Test Type: static Test substance: | test |
| Toxici plants | ty to algae/aquatic | : | EC50 : 11 mg/l Exposure time: 7 Test Type: static Test substance: Method: EPA-66 | test Fresh water |
| | | | NOEC : 4.2 mg/l Exposure time: 7 Test Type: static Test substance: Method: EPA-66 | test Fresh water |
| Toxici | ty to microorganisms | : | IC50 (activated s Exposure time: 3 Test Type: static Test substance: | test |
| aquati | ty to daphnia and other c invertebrates nic toxicity) | : | Test Type: semi- Test substance: | a magna (Water flea) static test |
| Ecoto | xicology Assessment | | | |
| | ic aquatic toxicity | : | Toxic to aquatic | life with long lasting effects. |
| | ion products of pentagen sulfide: | eryt | hritol, propoxyla | ted and 1-chloro-2,3-epoxypropane with |
| - | ty to fish | : | End point: morta Exposure time: 9 Test substance: | 16 h |
| | ty to daphnia and other ic invertebrates | : | EC50 (Daphnia r End point: Immo Exposure time: 4 | |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Versior 1.3 | Revision Date: 26.07.2023 | SDS Num 40000101 | |
|----------------|--|---------------------------|---|
| | | | Print Date 10.05.2025 |
| | | Test s | Гуре: static test substance: Fresh water od: OECD Test Guideline 202 |
| | xicity to algae/aquatic ants | Expos Test T | (Desmodesmus subspicatus (green algae)): > 733 mg/l sure time: 72 h Type: static test od: OECD Test Guideline 201 yes |
| Τc | xicity to microorganisms | Expos Test T Test s | (activated sludge): > 1,000 mg/l sure time: 3 h Type: static test substance: Fresh water od: OECD Test Guideline 209 yes |
| aq | exicity to daphnia and othe uatic invertebrates hronic toxicity) | Expos Speci Test s | C: 3.5 mg/l sure time: 21 d es: Daphnia magna (Water flea) substance: Fresh water od: OECD Test Guideline 211 yes |
| | Ic (Mg3H2(SiO3)4): exicity to fish | | (Brachydanio rerio (zebrafish)): > 100 mg/l sure time: 24 h |
| 12.2 Pe | ersistence and degradab | lity | |
| <u>Cc</u> | omponents: | | |
| bi | s-[4-(2,3-epoxipropoxi)pł | enyl]propa | ane: |
| Bi | odegradability | Inocu | Type: aerobic lum: activated sludge, non-adapted |

| | Inoculum: activated sludge, non-adapted Concentration: 20 mg/l Result: Not readily biodegradable. Biodegradation: 5 % Exposure time: 28 d Method: OECD Test Guideline 301F |
|----------------------|---|
| Stability in water : | Degradation half life (DT50): 4.83 d (25 °C) pH: 4 Method: OECD Test Guideline 111 Remarks: Fresh water |
| | Degradation half life (DT50): 7.1 d (25 °C) pH: 9 Method: OECD Test Guideline 111 Remarks: Fresh water |
| | Degradation half life (DT50): 3.58 d (25 °C) pH: 7 Method: OECD Test Guideline 111 Remarks: Fresh water |



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

Version 1.3 26.07.2023

Revision Date:

SDS Number: 400001015270



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Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide:

| Result: Not biodegradable Biodegradation: 5 % Exposure time: 28 d Method: OECD Test Guideline 301B |
|---|
|---|

12.3 Bioaccumulative potential

Components:

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

| Bioaccumulation | : | Bioconcentration factor (BCF): 31 Remarks: Does not bioaccumulate. |
|--|---|---|
| Partition coefficient: n- octanol/water | : | log Pow: 3.242 (25 °C) pH: 7.1 |

| P | | |
|---------|------------------|---------------|
| Method: | OECD Test | Guideline 117 |

12.4 Mobility in soil

Components:

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

| Distribution among | : | Koc: 445 |
|----------------------------|---|----------|
| environmental compartments | | |

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered 2 to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

| Assessment | : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at |
|------------|--|
| | levels of 0.1% or higher. |

12.7 Other adverse effects

| Ρ | r | ο | d | u | С | t: | |
|---|---|---|---|---|---|----|--|
| | | | | | | | |

| Additional ecological | : | An environmental hazard cannot be excluded in the event of |
|-----------------------|--------------------------------------|--|
| information | unprofessional handling or disposal. | |
| | | Toxic to aquatic life. |
| | | Harmful to aquatic life with long lasting effects. |

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

Version R 1.3 2

Revision Date: 26.07.2023

SDS Number: 400001015270 Date of last issue: 17.10.2022 Date of first issue: 28.06.2018

Print Date 10.05.2025

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. |
|------------------------|---|
| Contaminated packaging | Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. |

SECTION 14: Transport information

14.1 UN number or ID number

| UNRTDG | : | Not regulated as dangerous goods |
|---------------------------------|---|----------------------------------|
| ADN | : | Not regulated as dangerous goods |
| ADR | : | Not regulated as dangerous goods |
| RID | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| ΙΑΤΑ | : | Not regulated as dangerous goods |
| 14.2 UN proper shipping name | | |
| UNRTDG | : | Not regulated as dangerous goods |
| ADN | : | Not regulated as dangerous goods |
| ADR | : | Not regulated as dangerous goods |
| RID | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| ΙΑΤΑ | : | Not regulated as dangerous goods |
| 14.3 Transport hazard class(es) | | |
| ADR | : | Not regulated as dangerous goods |
| RID | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| ΙΑΤΑ | : | Not regulated as dangerous goods |
| 14.4 Packing group | | |
| ADR | : | Not regulated as dangerous goods |
| RID | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| | | |



e: SDS N

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: 26.07.2023 | SDS Number: | Date of last issue: 17.10.2022 |
|---------|---------------------------|--------------|---------------------------------|
| 1.3 | | 400001015270 | Date of first issue: 28.06.2018 |
| | | | Print Date 10.05.2025 |

| IATA (Cargo) | : | Not regulated as dangerous goods |
|--------------|---|----------------------------------|
| | | |

IATA (Passenger) : Not regulated as dangerous goods

14.5 Environmental hazards

Not regulated as dangerous goods

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

| REACH - List of substances subject to authorisation (Annex XIV) | : Not applicable |
|--|--|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered: Number on list 75, 3 |
| | If you intend to use this product as tattoo ink, please contact your vendor. |
| UK REACH List of restrictions (Annex 17) | : Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : Not applicable |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | Not applicable |



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR

| Version | Revision Date: | SDS Number: | Date of last issue: 17.10.2022 |
|---------|----------------|--------------|---------------------------------|
| 1.3 | 26.07.2023 | 400001015270 | Date of first issue: 28.06.2018 |

Print Date 10.05.2025

| The components of this pro | educt are reported in the following inventories: : All components of this product are on the Canadian DSL |
|----------------------------|---|
| AIIC | : On the inventory, or in compliance with the inventory |
| ENCS | : On the inventory, or in compliance with the inventory |
| KECI | : On the inventory, or in compliance with the inventory |
| PICCS | : On the inventory, or in compliance with the inventory |
| IECSC | : On the inventory, or in compliance with the inventory |
| TCSI | : On the inventory, or in compliance with the inventory |
| TSCA | : All substances listed as active on the TSCA inventory |

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

| Full text of H-Statements | | | | |
|--------------------------------------|---|---|--|--|
| H315 H317 H319 H411 H412 | : | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. | | |
| Full text of other abbreviations | | | | |
| Aquatic Chronic Eye Irrit. | | Long-term (chronic) aquatic hazard Eye irritation | | |
| Skin Irrit. Skin Sens. | - | Skin irritation Skin sensitisation | | |
| 2004/37/EC | : | Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens | | |



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

ARALDITE® REPAIR



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| Version 1.3 | Revision Date: 26.07.2023 | SDS Number: 400001015270 | Date of last issue: 17.10.2022 Date of first issue: 28.06.2018 |
|--------------------------------|--------------------------------------|-----------------------------|---|
| | | | Print Date 10.05.2025 |
| 200 | EH40)4/37/EC / TWA EH40 / TWA | : Long term expos | Workplace Exposure Limits ure limit ure limit (8-hour TWA reference period) |
| Fu | ther information | | |
| Classification of the mixture: | | | Classification procedure: |
| Ski | n Irrit. 2 | H315 | Calculation method |
| Eye | e Irrit. 2 | H319 | Calculation method |
| Ski | n Sens. 1 | H317 | Calculation method |
| Aqu | uatic Chronic 3 | H412 | Based on product data or assessment |

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