Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

## SAFETY DATA SHEET

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Version
12.14

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

| 1.1 Product identifier |  |
| :--- | :--- |
| Product name | : AMERCOAT 240 RESIN |
| Product code | : 00298697 |
| Product type | : Liquid. |
| Other means of identification |  |
| Not available. |  |

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

Product use : Professional applications, Used by spraying.
Use of the substance/ : Coating. mixture
Uses advised against : Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of the safety data sheet

Sigma Paint Saudi Arabia Ltd.
PO Box 7509, Dammam 31472
Saudi Arabia
Tel: 00966138473100
Fax: 00966138471734
e-mail address of person
: PS.ACEMEA@ppg.com
responsible for this SDS
1.4 Emergency telephone : 00966138473100 extn 1001
number

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition
: Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 3, H412
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms
:


Signal word

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## SECTION 2: Hazards identification

Hazard statements
Precautionary statements Prevention

Response

## Storage

Disposal
Hazardous ingredients

Supplemental label elements

Annex XVII - Restrictions : Not applicable.
Causes skin irritation.
: Not applicable.
: epoxy resin (MW $\leq 700$ ) on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

| Containers to be fitted <br> with child-resistant <br> fastenings | $:$ Not applicable. |
| :--- | :--- |
| Tactile warning of danger | $:$ Not applicable. |

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. result in classification

Flammable liquid and vapour.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.
: Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapour.
: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
: Store in a well-ventilated place. Keep cool.

Epoxy Resin ( $700<\mathrm{MW}<=1100$ )
1,4-bis(2,3 epoxypropoxy)butane
: Contains epoxy constituents. May produce an allergic reaction.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | \% by weight | Classification Regulation (EC) No. 1272/2008 [CLP] | Type |
| :---: | :---: | :---: | :---: | :---: |
| epoxy resin (MW $\leq 700$ ) | REACH \#: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 | $\geq 10-<25$ | Skin Irrit. 2, H315 <br> Eye Irrit. 2, H319 <br> Skin Sens. 1, H317 <br> Aquatic Chronic 2, H411 | [1] |
| Epoxy Resin (700<MW<=1100) | CAS: 25036-25-3 | $\geq 5.0-\leq 10$ | Skin Irrit. 2, H315 <br> Eye Irrit. 2, H319 <br> Skin Sens. 1, H317 | [1] |
| xylene | REACH \#: 01-2119488216-32 <br> EC: 215-535-7 <br> CAS: 1330-20-7 <br> Index: 601-022-00-9 | $\geq 1.0-\leq 5.0$ | Flam. Liq. 3, H226 <br> Acute Tox. 4, H312 <br> Acute Tox. 4, H332 <br> Skin Irrit. 2, H315 | [1] [2] |

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## SECTION 3: Composition/information on ingredients

| heptan-2-one <br> butan-1-ol <br> 1,4-bis(2,3 epoxypropoxy)butane | REACH \#: 01-2119902391-49 <br> EC: 203-767-1 <br> CAS: 110-43-0 <br> Index: 606-024-00-3 <br> REACH \#: 01-2119484630-38 <br> EC: 200-751-6 <br> CAS: 71-36-3 <br> Index: 603-004-00-6 <br> REACH \#: 01-2119494060-45 <br> EC: 219-371-7 <br> CAS: 2425-79-8 <br> Index: 603-072-00-7 | $\begin{aligned} & \geq 1.0-\leq 5.0 \\ & \geq 0.30-\leq 2.9 \\ & \geq 1.0-\leq 5.0 \end{aligned}$ | Eye Irrit. 2, H319 <br> STOT SE 3, H335 <br> Asp. Tox. 1, H304 <br> Flam. Liq. 3, H226 <br> Acute Tox. 4, H302 <br> Acute Tox. 4, H332 <br> STOT SE 3, H336 <br> Flam. Liq. 3, H226 <br> Acute Tox. 4, H302 <br> Skin Irrit. 2, H315 <br> Eye Dam. 1, H318 <br> STOT SE 3, H335 <br> STOT SE 3, H336 <br> Acute Tox. 4, H302 <br> Acute Tox. 4, H312 <br> Acute Tox. 4, H332 <br> Skin Irrit. 2, H315 <br> Eye Irrit. 2, H319 <br> Skin Sens. 1, H317 <br> Aquatic Chronic 3, H412 | [1] [2] ${ }^{\text {[1] [2] }}$ |
| :---: | :---: | :---: | :---: | :---: |

## See Section 16 for the full text of the $\mathbf{H}$ statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.
Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy
Occupational exposure limits, if available, are listed in Section 8.
SUB codes represent substances without registered CAS Numbers.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact

Inhalation

Skin contact

Ingestion

Protection of first-aiders
: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects
Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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## SECTION 4: First aid measures

| Ingestion <br> Over-exposure signs/symptoms |  |
| :--- | :--- |
| Eye contact | $:$Adverse symptoms may include the following: <br>  <br>  <br>  <br>  <br> pain or irritation <br> watering |
|  | redness |

4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician | $:$Treat symptomatically. Contact poison treatment specialist immediately if large <br>  <br> Quantities have been ingested or inhaled. |
| :--- | :--- |
| Specific treatments | $:$ No specific treatment. |

## SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing
media $\quad$ : Use dry chemical, $\mathrm{CO}_{2}$, water spray (fog) or foam.
5.2 Special hazards arising from the substance or mixture

Hazards from the : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.
substance or mixture

Hazardous combustion
products

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

Special precautions for fire- : Promptly isolate the scene by removing all persons from the vicinity of the incident if fighters

Special protective equipment for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

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

| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| :---: | :---: |
| For emergency responders | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill
Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## SECTION 7: Handling and storage

## Advice on general occupational hygiene

### 7.2 Conditions for safe

 storage, including any incompatibilities: Store between the following temperatures: 0 to $35^{\circ} \mathrm{C}\left(32\right.$ to $\left.95^{\circ} \mathrm{F}\right)$. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

| Recommendations | : Not available. |
| :--- | :--- |
| Industrial sector specific <br> solutions | $:$ Not available. |

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
| :--- | :--- |
| xylene | EU OEL (Europe, 2/2017). Absorbed through skin. |
|  | STEL: $442 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. |
|  | STEL: 100 ppm 15 minutes. |
|  | TWA: $221 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. |
| heptan-2-one | TWA: 50 ppm 8 hours. |
|  | EU OEL (Europe, 2/2017). Absorbed through skin. |
|  | STEL: $475 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. |
|  | STEL: 100 ppm 15 minutes. |
| butan-1-ol | TWA: $238 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. |
|  | TWA: 50 ppm 8 hours. |
|  | ACGIH TLV (United States, 3/2019). |
|  | TWA: 20 ppm 8 hours. |

Recommended monitoring procedures

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## SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls
: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## Individual protection measures

Hygiene measures

Eye/face protection
Skin protection
Hand protection

## Gloves

Body protection

Other skin protection

Respiratory protection

Environmental exposure controls
: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
: Chemical splash goggles.
: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
: butyl rubber
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

## Appearance

Physical state
Colour
Odour
Odour threshold
pH
Melting point/freezing point

Initial boiling point and boiling range

Flash point
Evaporation rate

Flammability (solid, gas)
Upper/lower flammability or explosive limits

Vapour pressure

Vapour density
Relative density
Solubility(ies)
Partition coefficient: $n$-octanol/ water

Auto-ignition temperature
Decomposition temperature
Viscosity
Viscosity
Explosive properties
Oxidising properties
: Liquid
: Various
: Aromatic. [Slight]
: Not available.
: insoluble in water.
: May start to solidify at the following temperature: $-21.5^{\circ} \mathrm{C}\left(-6.7^{\circ} \mathrm{F}\right)$ This is based on data for the following ingredient: 1,4-bis(2,3 epoxypropoxy)butane. Weighted average: $-66.88^{\circ} \mathrm{C}\left(-88.4^{\circ} \mathrm{F}\right)$
: $>37.78^{\circ} \mathrm{C}$
: Closed cup: $36^{\circ} \mathrm{C}$
: Highest known value: 0.77 (xylene) Weighted average: 0.58 compared with butyl acetate
: liquid
: Greatest known range: Lower: 1.4\% Upper: 11.3\% (butan-1-ol)
: Highest known value: <2.5 kPa (<18.8 mm Hg) (at 20 ${ }^{\circ} \mathrm{C}$ ) (1,4-bis(2,3 epoxypropoxy)butane). Weighted average: $1.14 \mathrm{kPa}(8.55 \mathrm{~mm} \mathrm{Hg})\left(\right.$ at $\left.20^{\circ} \mathrm{C}\right)$
: Highest known value: 7 (Air = 1) (1,4-bis(2,3 epoxypropoxy)butane). Weighted average: 4.12 (Air = 1)
: 1.65
: Insoluble in the following materials: cold water.
: Not applicable.
: Lowest known value: $355^{\circ} \mathrm{C}\left(671^{\circ} \mathrm{F}\right)$ (butan-1-ol).
: Stable under recommended storage and handling conditions (see Section 7).
: Kinematic (room temperature): $>4 \mathrm{~cm}^{2} / \mathrm{s}$ Kinematic $\left(40^{\circ} \mathrm{C}\right)$ : $>0.21 \mathrm{~cm}^{2} / \mathrm{s}$
: > 100 s (ISO 6mm)
: Product does not present an explosion hazard.
: Product does not present an oxidizing hazard.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity
: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability
: The product is stable.
10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid
: When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

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## SECTION 10: Stability and reactivity

10.5 Incompatible materials
10.6 Hazardous decomposition products
: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :---: | :---: | :---: | :---: | :---: |
| epoxy resin (MW $\leq 700$ ) | LD50 Dermal | Rabbit | $>2 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $>2 \mathrm{~g} / \mathrm{kg}$ | - |
| Epoxy Resin ( $700<\mathrm{MW}<=1100$ ) | LD50 Dermal | Rat | >2000 mg/kg | - |
|  | LD50 Oral | Rat | >2000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | $>1.7 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $4.3 \mathrm{~g} / \mathrm{kg}$ | - |
| heptan-2-one | LC50 Inhalation Vapour | Rat | $16.7 \mathrm{mg} / \mathrm{l}$ | 4 hours |
|  | LD50 Dermal | Rabbit | $10.206 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $1.6 \mathrm{~g} / \mathrm{kg}$ |  |
| butan-1-ol | LC50 Inhalation Vapour | Rat | $24000 \mathrm{mg} / \mathrm{m}^{3}$ | 4 hours |
|  | LC50 Inhalation Vapour | Rat | 8000 ppm | 4 hours |
|  | LD50 Dermal | Rabbit | $3400 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $790 \mathrm{mg} / \mathrm{kg}$ |  |
| 1,4-bis(2,3 epoxypropoxy)butane | $\begin{aligned} & \text { LD50 Derm } \\ & \text { LD50 Oral } \end{aligned}$ | Rabbit Rat | $1134 \mathrm{mg} / \mathrm{kg}$ | - |

Conclusion/Summary : There are no data available on the mixture itself.
Acute toxicity estimates

| Route | ATE value |
| :--- | :--- |
| Oral | $16912.33 \mathrm{mg} / \mathrm{kg}$ |
| Dermal | $16472.81 \mathrm{mg} / \mathrm{kg}$ |
| Inhalation (vapours) | $131.81 \mathrm{mg} / \mathrm{l}$ |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700)$ | Skin - Mild irritant | Rabbit | - | - | - |
| xylene | Eyes - Mild irritant | Rabbit | - | - | - |
|  | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

| Skin | $:$ There are no data available on the mixture itself. |
| :--- | :--- |
| Eyes | $:$ There are no data available on the mixture itself. |
| Respiratory | $:$ There are no data available on the mixture itself. |

Sensitisation

| Product/ingredient name | Route of <br> exposure | Species | Result |
| :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700)$ <br> 1,4 -bis(2,3 epoxypropoxy)butane | skin <br> skin | Mouse <br> Guinea pig | Sensitising <br> Sensitising |

## Conclusion/Summary

Skin
: There are no data available on the mixture itself.
Respiratory : There are no data available on the mixture itself.
Mutagenicity

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## SECTION 11: Toxicological information

| Conclusion/Summary <br> Carcinogenicity | : There are no data available on the mixture itself. |
| :--- | :--- |
| Conclusion/Summary : There are no data available on the mixture itself. <br> Reproductive toxicity  |  |
| Conclusion/Summary : There are no data available on the mixture itself. <br> Teratogenicity  <br> Conclusion/Summary : There are no data available on the mixture itself. <br> Specific target organ toxicity (single exposure)  |  |


| Product/ingredient name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| xylene | Category 3 | Not applicable. | Respiratory tract irritation <br> heptan-2-one <br> Category 3 <br> Not applicable. <br> Natan-1-ol |
| Category 3 |  |  |  |
| Not applicable. |  |  |  |
| Narcotic effects |  |  |  |
| Category 3 |  |  |  | Not applicable. | Respiratory tract irritation |
| :--- |

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

| Product/ingredient name | Result |
| :--- | :--- |
| xylene | ASPIRATION HAZARD - Category 1 |

Information on likely : Not available. routes of exposure

## Potential acute health effects

| Inhalation | $:$ No known significant effects or critical hazards. |
| :--- | :--- |
| Ingestion | $:$ No known significant effects or critical hazards. |
| Skin contact | $:$ Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction |
| Eye contact | $:$ Causes serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics

| Inhalation | $:$ No specific data. |
| :--- | :--- |
| Ingestion | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: |
|  | irritation |
|  | redness |
|  | dryness |
|  | cracking |
| Eye contact | $:$Adverse symptoms may include the following: <br> pain or irritation <br> watering |
|  | redness |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

## Short term exposure

Potential immediate : Not available. effects

Potential delayed effects : Not available.

## Long term exposure

Potential immediate : Not available. effects

Potential delayed effects : Not available.

## Potential chronic health effects

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## SECTION 11: Toxicological information

Not available.

Conclusion/Summary
General
: Not available.
: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity
Teratogenicity
Developmental effects
Fertility effects
Other information
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
Ingestion may cause nausea, diarrhea and vomiting.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with crosssensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW $\leq 700$ ), Epoxy Resin (700<MW<=1100), 1,4-bis(2,3 epoxypropoxy)butane. May produce an allergic reaction.

## SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700$ ) | Acute LC50 $1.8 \mathrm{mg} / \mathrm{l}$ | Daphnia | 48 hours |
|  | Chronic NOEC $0.3 \mathrm{mg} / \mathrm{l}$ | Daphnia | 21 days |
| heptan-2-one | Acute LC50 131 mg/l | Fish | 96 hours |
| butan-1-ol | Acute LC50 1376 mg/l | Fish | 96 hours |
| 1,4 -bis(2,3 epoxypropoxy)butane | Acute EC50 $19.8 \mathrm{mg} / \mathrm{l}$ | Fish | 96 hours |

Conclusion/Summary
: There are no data available on the mixture itself.
12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
| :--- | :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700)$ | OECD 301F | $5 \%-28$ days | - | - |
| heptan-2-one | OECD 310 | $69 \%-$ Readily -28 days | - | - |
| 1,4 -bis(2,3 epoxypropoxy) | OECD 301F | $43 \%-$ Not readily - 28 days | - | - |
| butane |  |  |  |  |

Conclusion/Summary
: There are no data available on the mixture itself.

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## SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
| :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700)$ | - | - | Not readily |
| xylene | - | - | Readily |
| heptan-2-one | - | - | Readily |
| $1,4-$ bis(2,3 epoxypropoxy)butane | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| epoxy resin (MW $\leq 700)$ | 3 | 31 | low |
| xylene | 3.16 | 7.4 to 18.5 | low |
| heptan-2-one | 1.98 | - | low |
| butan-1-ol | 0.88 | - | low |
| 1,4 -bis(2,3 epoxypropoxy)butane | -0.15 | - | low |

### 12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)
Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

## Product

Methods of disposal
hazardous waste

European waste catalogue (EWC)

| Waste code | Waste designation |
| :---: | :--- |
| 0801 11* | waste paint and varnish containing organic solvents or other hazardous substances |

## Packaging

Methods of disposal
: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |  |
| :--- | :--- | :--- |
| Container | 150106 | mixed packaging |

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## SECTION 13: Disposal considerations

Special precautions
: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID | IMDG | IATA |
| :--- | :--- | :--- | :--- |
| 14.1 UN number | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper <br> shipping name | PAINT | PAINT | PAINT |
| 14.3 Transport <br> hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | III | IIII | III |
| 14.5 <br> Environmental <br> hazards <br> Marine pollutant <br> substances | No. | No. | No. |

## Additional information

| ADR/RID | $:$ This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to |
| :--- | :--- |
|  | 2.2 .3 .1 .5 .1. |
| Tunnel code | $:(\mathrm{D} / \mathrm{E})$ |
| IMDG | $:$ This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to |
|  | 2.3 .2 .5. |
| IATA | $:$ None identified. |

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user
14.7 Transport in bulk : Not applicable. according to Annex II of Marpol and the IBC Code

## SECTION 15: Regulatory information

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

## EU Regulation (EC) No. 1907/2006 (REACH)

## Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.

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## SECTION 15: Regulatory information

## Annex XVII - Restrictions <br> on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Other national and international regulations.
Ozone depleting substances (1005/2009/EU)
Not listed.
15.2 Chemical safety : No Chemical Safety Assessment has been carried out.
assessment

## SECTION 16: Other information

7 Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate <br> CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.  <br>  $1272 / 2008]$ |
| :--- | :--- |
|  | DNEL = Derived No Effect Level |
| EUH statement = CLP-specific Hazard statement |  |

## Full text of classifications [CLP/GHS]

Date of issue/ Date of : 16 January 2020

Date of previous issue : 30 September 2019
: Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Aquatic Chronic 2, H41
Aquatic Chronic 3, H412
Asp. Tox. 1, H304
Eye Dam. 1, H318
Eye Irrit. 2, H319
Flam. Liq. 3, H226
Skin Irrit. 2, H315
Skin Sens. 1, H317
STOT SE 3, H335
STOT SE 3, H336

## History

 revisionConforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
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## SECTION 16: Other information

Prepared by
: EHS
Version : 12.14

## Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.


[^0]:    : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

