SAFETY DATA SHEET

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ARALDITE® RAPID G RESIN

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

| 1.1 Product identifier | |
|-------------------------------|---------------------------|
| Product name | : ARALDITE® RAPID G RESIN |
| Registration number | : Not available. |
| Product code | : 00087386 |
| Product description | : |
| Other means of identification | : Not available. |

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Resin for adhesive systems

| 1.3 Details of the supplier of Supplier | f the : | safety data sheet EVOCHEM S.A. Tzaverdella Place 133 41 PHILI , ATTICA - GREECE Phone.: 0030 210 5590460 , 0030 210 5590155 - Fax: 0030 210 6254737 , 0030 210 5590244 |
|---|------------|---|
| e-mail address of person responsible for this SDS | : | info@evochem.gr; vmergoupis@evochem.gr; sales@evochem.gr www.evochem.gr |

1.4 Emergency telephone number : National Poisoning Center 2107793777

SECTION 2: Hazards identification

| 2.1 Classification of the sub | stance or mixture |
|---|---|
| Product definition | : Mixture |
| Classification according to Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | <u>Regulation (EC) No. 1272/2008 [CLP/GHS]</u> |
| Ingredients of unknown toxicity | : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4.7% |
| Ingredients of unknown ecotoxicity | : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.7% |
| Classification according to | Directive 1999/45/EC [DPD] |
| The product is classified as | a dangerous according to Directive 1999/45/EC and its amendments. |

| ARALDITE RAPID G RESIN | 1 | | 2/1 |
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| SECTION 2: Hazard | s identification | | |
| Classification | : Xi; R36/38 R43 N; R51/53 | | |
| Human health hazards | : Irritating to eyes and | skin. May cause sensitisation | n by skin contact. |
| Environmental hazards | : Toxic to aquatic orga environment. | anisms, may cause long-term | adverse effects in the aquatic |
| Additional information | direct toxicological te | | aph 1b, classification derived from precedence over classification nethod. |

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

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2.2 Label elements

Hazard pictograms



| Signal word | 1 | Warning |
|---|----|--|
| Hazard statements | : | Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. |
| Precautionary statements | | |
| General | 1 | Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. |
| Prevention | - | Wear protective gloves: > 8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL). Wear eye or face protection. Avoid release to the environment. |
| Response | 1 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | 1 | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | : | reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) butanedioldiglycidyl ether |
| Supplemental label elements | 1 | Not applicable. |
| Supplemental label elements | : | Contains epoxy constituents. See information supplied by the manufacturer. |
| Special packaging requirement | en | <u>ts</u> |
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | ; | Not applicable. |
| 2.3 Other hazards Other hazards which do not result in classification | : | None known. |

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| | | | <u>Classi</u> | <u>fication</u> | |
|---|--|--------|---|--|------|
| Product/ingredient name | Identifiers | % | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | Туре |
| reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) | CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619-26 | 60-100 | Xi; R36/38 R43 N; R51/53 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | [1] |
| 1,4-Bis(2, 3-epoxypropoxy)butane | CAS: 2425-79-8 EC: 219-371-7 RRN: 01-2119494060-45 | 3-7 | Xn; R20/21/22 Xi; R41, R38 R43 R52/53 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 | [1] |
| | | | 102/00 | Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 | |
| | | | See Section 16 for the full text of the R- phrases declared above. | See Section 16 for the full text of the H statements declared above. | |

<u>Type</u>

[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

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|--|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |

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SECTION 4: First aid measures

| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
|----------------------------|--|
| Protection of first-aiders | 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 healt | n effects |
|----------------------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : Irritating to mouth, throat and stomach. |
| <u>Over-exposure signs</u> | /symptoms |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| 4.3 Indication of any ir | nmediate medical attention and special treatment needed |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. | |
|--|---|--|
| Unsuitable extinguishing media | : None known. | |

5.2 Special hazards arising from the substance or mixture

| Hazards from the | : In a fire or if heated, a pressure increase will occur and the container may burst. |
|----------------------|---|
| substance or mixture | This material is toxic 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. |

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| htir | ig measures | | |
| : | carbon dioxide carbon monoxide nitrogen oxides | | y materials: |
| | | | |
| : | | | |
| : s | breathing apparatus mode. Clothing for f | (SCBA) with a full face-piece ire-fighters (including helmets) | operated in positive pressure s, protective boots and gloves) |
| | : ntin : | : 19 March 2015 : 19 March 2015 nting measures : Decomposition prod carbon dioxide carbon monoxide nitrogen oxides halogenated composition : Promptly isolate the there is a fire. No ad suitable training. : Fire-fighters should to breathing apparatus mode. Clothing for ficonforming to Europ | 19 March 2015 (M)SDS no. 19 March 2015 Version 19 March 2015 Version Decomposition products may include the following carbon dioxide carbon monoxide nitrogen oxides halogenated compounds Promptly isolate the scene by removing all person there is a fire. No action shall be taken involving a suitable training. Fire-fighters should wear appropriate protective end breathing apparatus (SCBA) with a full face-piece mode. Clothing for fire-fighters (including helmets conforming to European standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by the standard EN 469 will protective of the scene by th |

| 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. 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, d and sewers. Inform the relevant authorities if the product has caused environ pollution (sewers, waterways, soil or air). Water polluting material. May be had to the environment if released in large quantities. Collect spillage. | | | |
| 6.3 Methods and material for | со | ntainment and cleaning up | | |
| Small spill | : | Stop leak if without risk. Move containers from spill area. 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. 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 non-combustible, 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. | | |

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. **6.4 Reference to other** sections See Section 13 for additional waste treatment information.

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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

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). 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. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : 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. See also Section 8 for additional information on hygiene measures. |
| 7.2 Conditions for safe storage, including any incompatibilities | : Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. 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. 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. |
| Storage hazard class Huntsman Advanced Materials | : Storage class 10, Environmentally hazardous liquids |
| 7.3 Specific end use(s) | |
| Recommendations | : Not available. |
| Industrial sector specific 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

No exposure limit value known.

procedures

Recommended monitoring : 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.

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SECTION 8: Exposure controls/personal protection

Derived effect levels

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|--|------|--------------------------|-----------------------------|------------|----------|
| eaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) | DNEL | Short term Dermal | 8.33 mg/ kg bw/day | Workers | Systemic |
| , | DNEL | Short term Inhalation | 12.25 mg/ m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 8.33 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 12.25 mg/ m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 3.571 mg/ kg bw/day | Consumers | Systemic |
| | DNEL | Short term Oral | 0.75 mg/ kg bw/day | Consumers | Systemic |
| | DNEL | Long term Dermal | 3.571 mg/ kg bw/day | Consumers | Systemic |
| | DNEL | Long term Oral | 0.75 mg/ kg bw/day | Consumers | Systemic |

Predicted effect concentrations

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|---|------|--|--|--|
| reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) | PNEC | Fresh water | 0.006 mg/l | Assessment Factors |
| | PNEC | PNECintermittent Fresh water sediment Marine water sediment Soil Sewage Treatment Plant | 0.0006 mg/l 0.018 mg/l 0.996 mg/kg 0.0996 mg/kg 0.196 mg/kg 10 mg/l 11 mg/kg | Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Assessment Factors |

8.2 Exposure controls

Appropriate engineering controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measuresHygiene measures: 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.Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk
assessment indicates this is necessary to avoid exposure to liquid splashes, mists,
gases or dusts. If contact is possible, the following protection should be worn,
unless the assessment indicates a higher degree of protection: chemical splash
goggles.Skin protection

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| SECTION 8: Exposu | ire (| controls/perso | nal protection | |
| Hand protection | : | | | with an approved standard should lucts if a risk assessment indicates |
| Material of gloves for long term application (BTT>480min): | : | butyl rubber, Ethyl V | nyl Alcohol Laminate (EVAL) |) |
| Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>:</td><td>nitrile rubber, neopre</td><td>ene</td><td></td></btt<480min):<> | : | nitrile rubber, neopre | ene | |
| (BTT = Break Through Time) | | | | |
| | | Suitability and durab duration of contact, of | | |
| Body protection | : | | I the risks involved and shou | d be selected based on the task ld be approved by a specialist |
| Other skin protection | : | selected based on th | r and any additional skin prot ie task being performed and alist before handling this proc | the risks involved and should be |
| Respiratory protection | : | must be based on ki | | protection. Respirator selection levels, the hazards of the product ator. |
| Environmental exposure controls | : | ensure they comply In some cases, fume | | ronmental protection legislation. ering modifications to the process |

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physic | al and chemical properties |
|---|--|
| Appearance | |
| Physical state | : Liquid. |
| Colour | : Light yellow |
| Odour | : Slight |
| Odour threshold | : Not available. |
| рН | : 6 [Conc. (% w/w): 50%] |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : >200°C |
| Flash point | : Closed cup: >200°C [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)] Open cup: 204°C |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Burning time | : Not applicable. |
| Burning rate | : Not applicable. |
| Upper/lower flammability or explosive limits | : Not available. |
| Vapour pressure | : <0.0002 kPa [room temperature] |
| Vapour density | : Not available. |
| Relative density | : Not available. |
| | |

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| SECTION 9: Physica | d chemical properties | |
| Solubility(ies) | | |
| Water solubility | practically insoluble | |
| | | |
| Deutition coefficients a coto | 20 deg C | |
| Partition coefficient: n-octa water (LogK₀w) | i Not avallable. | |
| Auto-ignition temperature | Not available. | |
| Decomposition temperature | : >200°C | |
| Viscosity | : Dynamic (25°C): 25000 - 45000 mPa·s Kinematic: Not available. Kinematic (40°C): Not available. | |
| Explosive properties | Not available. | |
| Oxidising properties | Not available. | |
| 9.2 Other information | | |
| Density | : 1.17 g/cm³ [25°C (77°F)] | |
| SECTION 10: Stabilit | | |
| | • | |
| 10.1 Reactivity | o specific test data related to reactivity available for this product or its | ingredients. |
| 10.2 Chemical stability | he product is stable. | |
| 10.3 Possibility of hazardous reactions | nder normal conditions of storage and use, hazardous reactions will n | ot occur. |
| 10.4 Conditions to avoid | o specific data. | |
| 10.5 Incompatible materials | rong acids, strong bases, strong oxidising agents | |
| 10.6 Hazardous decomposition products | nder normal conditions of storage and use, hazardous decomposition nould not be produced. | products |
| | ecomposition products may include the following materials:Carbon ox roduces obnoxious and toxic fumes. | ides, Burning |

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Endpoint | Species | Result | Exposure |
|--|------------------------------|-----------------------|-------------|----------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | LC0 Inhalation Vapour | Rat - Male | 0.00001 ppm | 5 hours |
| , | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat - Female | >2000 mg/kg | - |
| 1,4-Bis(2,3-epoxypropoxy) butane | LD50 Dermal | Rat - Male, Female | 2150 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | 1163 mg/kg | - |
| Conclusion/Summary | : No additional information. | | | |
| Acute toxicity estimates | | | | |

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Not available.

Irritation/Corrosion

| Product/ingredient name | Test | | Species | Route of exposure | Result |
|--|---|---|------------------------------------|-------------------|-----------------|
| ARALDITE RAPID G RESIN | OECD Bovine Corneal Opacity and Permeability Test Method for Identifying Ocular Corrosives and Severe Irritants | | Mammal - species unspecified | Eyes | Non-corrosive |
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 404 Acute Dermal Irritation/ Corrosion | | Rabbit | Skin | Mild irritant |
| | OECD 405 Acute Eye Irritatio | on/ | Rabbit | Eyes | Mild irritant |
| 1,4-Bis(2,3-epoxypropoxy) butane | OECD 404 Acute Dermal Irri Corrosion | itation/ | Rabbit | Skin | Non-irritant. |
| | OECD 405 Acute Eye Irritatio | on/ | Rabbit | Eyes | Severe irritant |
| Conclusion/Summary | • | | | • | |
| Skin Eyes | bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) 1,4-Bis(2, 3-epoxypropoxy)butane ARALDITE® RAPID G RESIN | Irritating to skin. Based on the human occupational exposure data, this substance is considered as irritating to skin. Non-corrosive | | | |
| | bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) 1,4-Bis(2, 3-epoxypropoxy)butane | Irritating to eyes. Severely irritating to eyes. | | | |
| Respiratory | : No additional information. | | | | |

<u>Sensitiser</u>

| Product/ingredient name | Test | Route of exposure | Species | Result |
|--|--|-------------------|------------|-------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 429 Skin Sensitisation: Local Lymph Node Assay | skin | Mouse | Sensitising |
| 1,4-Bis(2,3-epoxypropoxy) butane | OECD 406 Skin Sensitization | skin | Guinea pig | Sensitising |

Conclusion/Summary

Skin

: No additional information.

Respiratory

: No additional information.

: No addit

Mutagenicity

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| Product/ingredient name | Test | Result |
|--|---|----------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 471 Bacterial Reverse Mutation Test | Positive |
| | OECD 476 In vitro Mammalian Cell Gene Mutation Test | Positive |
| | OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test | Negative |
| | EPA OPPTS | Negative |
| 1,4-Bis(2,3-epoxypropoxy) butane | OECD 471 Bacterial Reverse Mutation Test | Positive |
| | OECD 473 In vitro Mammalian Chromosomal Aberration Test | Positive |
| | OECD 474 Mammalian Erythrocyte Micronucleus Test | Negative |

Conclusion/Summary

: No additional information.

Carcinogenicity

| Product/ingredient name | Test | Species | Exposure | Result | Route of exposure | Target organs |
|---|---|---------|--------------------------------|----------|-------------------|------------------|
| reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies | Rat | 2 years; 7 days per week | Negative | Oral | - |
| | OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies | Rat | 2 years; 5 days per week | Negative | Dermal | - |
| | OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies | Mouse | 2 years; 3 days per week | Negative | Dermal | - |

Conclusion/Summary : No additional information.

Reproductive toxicity

| Product/ingredient name | Test | Species | Result/Result type | Target organs |
|--|--|---------|-------------------------|------------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 416 Two-Generation Reproduction Toxicity Study | Rat | Oral: 540 mg/kg NOEL | - |

Conclusion/Summary : No additional information.

Teratogenicity

| Product/ingredient name | Test | Species | Result/Result type |
|--|---|--------------------|--------------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 414 Prenatal Developmental Toxicity Study | Rat - Female | >540 mg/kg NOEL |
| | EPA CFR | Rabbit - Female | >300 mg/kg NOEL |
| | OECD 414 Prenatal Developmental Toxicity Study | Rabbit - Female | 180 mg/kg NOAEL |
| Conclusion/Cummons | . No additional information | | |

Conclusion/Summary : No additional information.

Specific target organ toxicity (single exposure)

Not available.

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|--|---|------------------------|------------------|-----------------|
| ECTION 11: Toxicol Specific target organ toxicit Not available. Aspiration hazard Not available. | logical information | Version | : 1 | |
| <mark>Specific target organ toxicit</mark> Not available. <mark>Aspiration hazard</mark> Not available. | • | | | |
| Not available. Aspiration hazard Not available. | t <mark>y (repeated exposure)</mark> | | | |
| Aspiration hazard Not available. | | | | |
| Not available. | | | | |
| nformation on the likely | | | | |
| routes of exposure | : Not available. | | | |
| Potential acute health effect | <u>ts</u> | | | |
| Inhalation | : Exposure to decomposition may be delayed following e | | a health hazard. | Serious effects |
| Ingestion | : Irritating to mouth, throat a | nd stomach. | | |
| Skin contact | : Causes skin irritation. May | cause an allergic skin | reaction. | |
| Eye contact | : Causes serious eye irritation | n. | | |
| Symptoms related to the ph | ysical, chemical and toxicolo | gical characteristics | | |
| Inhalation | : No specific data. | | | |
| Ingestion | : No specific data. | | | |
| Skin contact | : Adverse symptoms may include the following: irritation redness | | | |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness | | | |
| Delayed and immediate effe | ects and also chronic effects | from short and long t | erm exposure | |
| Short term exposure | | | onnoxpoouro | |
| Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | | | |
| Long term exposure Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | | | |
| Potential chronic health effe | | | | |
| Product/ingredient name | Test | Result type | Result | Target organs |
| | | | | Target organs |
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents | NOAEL - | 50 mg/kg | - |
| | OECD 411 Subchronic Dermal Toxicity: 90-day Study | | 10 mg/kg | - |
| | OECD 411 Subchronic | NOAEL | 100 mg/kg | - |
| 1,4-Bis(2,3-epoxypropoxy) butane | Dermal Toxicity: 90-day Study OECD 407 Repeated Dose 28-day Oral Toxicity Study in Rodents | NOAEL - | 200 mg/kg | - |

| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|-----------------|---|
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards |

| wiulagementy | . NO KNOWN SIGNINGANT ENECTS OF CHILCAI NAZARUS. |
|----------------|---|
| Teratogenicity | : No known significant effects or critical hazards. |

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| Developmental effects | : No known significant effects or critical hazards. |
|-----------------------|---|
| Fertility effects | : No known significant effects or critical hazards. |
| Other information | : Not available. |

SECTION 12: Ecological information

12.1 Toxicity

| Test | Endpo | int | Exposure | Species | Result | |
|---|--|--|---|--|---|---|
| EPA CFR | Acute | EC50 | 72 hours Static | Algae | 9.4 | mg/l |
| OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test | Acute | EC50 | 48 hours Static | Daphnia | 1.7 | mg/l |
| Unknown guidelines | Acute | IC50 | 3 hours Static | Bacteria | >100 | mg/l |
| OECD 203 Fish, Acute Toxicity Test | Acute | LC50 | 96 hours Static | Fish | 1.5 | mg/l |
| OECD 211 Daphnia Magna Reproduction Test | Chronic | NOEC | 21 days Semi- static | Daphnia | 0.3 | mg/l |
| OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test | Acute | EC50 | 24 hours Static | Daphnia | 75 | mg/l |
| OECD 201 Alga, Growth Inhibition Test | Acute | EL50 | 72 hours Static | Algae | >160 | mg/l |
| OECD 209 Activated Sludge, Respiration Inhibition Test | Acute | IC50 | 3 hours Static | Bacteria | >100 | mg/l |
| OECD 203 Fish, Acute Toxicity Test | Acute | LC50 | 96 hours Static | Fish | 24 | mg/l |
| | EPA CFR OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test Unknown guidelines OECD 203 Fish, Acute Toxicity Test OECD 211 Daphnia Magna Reproduction Test OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test OECD 201 Alga, Growth Inhibition Test OECD 209 Activated Sludge, Respiration Inhibition Test OECD 203 Fish, Acute | EPA CFRAcuteOECD 202 Daphnia sp. Acute Immobilisation TestAcuteUnknown guidelinesAcuteOECD 203 Fish, Acute Toxicity TestAcuteOECD 211 Daphnia Magna Reproduction TestChronicOECD 202 Daphnia sp. Acute Immobilisation TestAcuteOECD 201 Alga, Growth Inhibition TestAcuteOECD 209 Activated Sludge, Respiration Inhibition TestAcute | EPA CFRAcuteEC50OECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC50Unknown guidelinesAcuteIC50OECD 203 Fish, Acute Toxicity TestAcuteIC50OECD 211 Daphnia Magna Reproduction TestChronicNOECOECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC50OECD 201 Alga, Growth Inhibition TestAcuteEL50OECD 209 Activated Sludge, Respiration Inhibition TestAcuteIC50OECD 203 Fish, AcuteSludge, AcuteAcuteIC50 | EPA CFRAcuteEC5072 hours StaticOECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC5048 hours StaticUnknown guidelinesAcuteIC503 hours StaticOECD 203 Fish, Acute Toxicity TestAcuteIC5096 hours StaticOECD 211 Daphnia Magna Reproduction TestChronicNOEC21 days Semi- staticOECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC5024 hours StaticOECD 201 Alga, Growth Inhibition TestAcuteEC5024 hours StaticOECD 209 Activated Sludge, Respiration Inhibition TestAcuteIC503 hours StaticOECD 203 Fish, Acute Toxicity TestAcuteIC503 hours Static | EPA CFRAcuteEC5072 hours StaticAlgaeOECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC5048 hours StaticDaphnia hours | EPA CFRAcuteEC5072 hours StaticAlgae9.4OECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC5048 hours StaticDaphnia1.7 hours StaticUnknown guidelinesAcuteIC503 hours StaticBacteria>100OECD 203 Fish, Acute Toxicity TestAcuteIC5096 hours StaticFish1.5OECD 211 Daphnia Magna Reproduction TestChronicNOEC21 days Semi- staticDaphnia0.3OECD 202 Daphnia sp. Acute Immobilisation TestAcuteEC5024 hours StaticDaphnia75OECD 201 Alga, Growth Inhibition TestAcuteEL5072 AcuteAlgae>160 hours StaticOECD 209 Activated Sludge, Respiration Inhibition TestAcuteIC50 Acute3 hours StaticBacteria>100OECD 203 Fish, Acute Toxicity TestAcuteIC50 Acute3 hours StaticAlgae>160 hours |

12.2 Persistence and degradability

| Product/ingredient name | Test | | Period | Result |
|---|--|----------------------|--------------------|-------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) 1,4-Bis(2,3-epoxypropoxy) butane | OECD Derived from OECD 301F (Biodegradation Test) OECD 301F Ready Biodegradability - Manometric Respirometry Test | | 28 days 28 days | 5 % 43 % |
| Conclusion/Summary | : reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) | Not readily biodegra | dable. | |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|------------|----------------------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) 1,4-Bis(2,3-epoxypropoxy) butane | Fresh water 4.83 days Fresh water 3.58 days Fresh water 7.1 days - | - | Not readily Not readily |

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12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|-----|-----------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | 3.242 | 31 | low |
| 1,4-Bis(2,3-epoxypropoxy) butane | -0.269 | - | low |

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

12.7 Other ecological information

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 | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
|---------------------|--|
| | |

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation | | | |
|---------------------|---|--|--|--|
| 07 02 08* | other still bottoms and reaction residues | | | |
| 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. | | | |
| 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. | | | |

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| Conforms to Regulation | on (EC) No. 1907/2006 (REACH) | , Annex II - United Kingdor | |
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SECTION 14: Transport information

| | 14.1 UN number | 14.2 UN proper shipping name |
|---------|----------------|--|
| ADR/RID | UN3082 | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A epoxy resin) |
| IMDG | UN3082 | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A epoxy resin). Marine pollutant (Bisphenol A epoxy resin) |
| ΙΑΤΑ | UN3082 | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A epoxy resin) |

| | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards | 14.6 Special precautions for user | Additional information |
|--------------|------------------------------------|-----------------------|----------------------------------|---|---|
| ADR/RID | 9 | | Yes. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Hazard</u> <u>identification</u> <u>number</u> 90 <u>Special</u> <u>provisions</u> 274 335 601 <u>Tunnel code</u> E |
| IMDG | 9 | | Yes. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules (EmS)</u> F-A S-F |
| | | | | | |
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| IATA 9 | | Yes. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft OnlyQuantity limitation: 450 L Packaging instructions: 964 |

14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

Annex XIV

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

This product is compliant with the REACH Regulation EC 1907/2006. Huntsman has pre-registered and is registering all of the substances that it manufactures in or imports into the

European Economic Area (EEA) that are subject to Title II of the REACH Regulation.

Annex XIV - List of substances subject to authorisation

| | None of the components are listed. | | | | | | |
|---|---|----------------------------------|--|--|--|--|--|
| | Substances of very high concern | | | | | | |
| | None of the components are | ne of the components are listed. | | | | | |
| | Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. | | | | |
| 9 | Other EU regulations | | | | | | |
| | Europe inventory | : | All components are listed or exempted. | | | | |
| | Black List Chemicals | : | Not listed | | | | |
| | Priority List Chemicals | : | Not listed | | | | |
| | Integrated pollution prevention and control list (IPPC) - Air | : | Not listed | | | | |
| | Integrated pollution prevention and control list (IPPC) - Water | : | Not listed | | | | |
| | | | | | | | |

National regulations

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| References | the recognised abbr | | r Regulation 6 of CHIP (CHIP is zard Information and Packaging Safety at Work Act 1974. |
| Australia inventory (AICS) | : All components are | listed or exempted. | |
| Canada inventory | : All components are | listed or exempted. | |
| China inventory (IECSC) | : All components are | listed or exempted. | |
| Japan inventory | : All components are | listed or exempted. | |
| Korea inventory (KECI) | : All components are | listed or exempted. | |
| New Zealand Inventory of Chemicals (NZIoC) | : All components are | listed or exempted. | |
| Philippines inventory (PICCS) | : All components are | listed or exempted. | |
| United States inventory (TSCA 8b) | : All components are | listed or exempted. | |
| Chemical Weapons Convention List Schedule I Chemicals | : Not listed | | |
| Chemical Weapons Convention List Schedule II Chemicals | : Not listed | | |
| Chemical Weapons Convention List Schedule III Chemicals | : Not listed | | |

Assessment

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and | : ATE = Acute Toxicity Estimate |
|-------------------|---|
| acronyms | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
| - | 1272/2008] |
| | DNEL = Derived No Effect Level |
| | EUH statement = CLP-specific Hazard statement |
| | PNEC = Predicted No Effect Concentration |
| | RRN = REACH Registration Number |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classi | fication | | Justification | |
|--|--|--|--|--|
| Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | | | Expert judgment Expert judgment Expert judgment Expert judgment | |
| Full text of abbreviated H statements | : H302 H312 H315 H317 H318 H319 H332 H411 H412 | Causes serious e Causes serious e Harmful if inhalee Toxic to aquatic l | ct with skin. ation. lergic skin reaction. eye damage. eye irritation. | |

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| SECTION 16: Other | information | | | | |
| Full text of classifications [CLP/GHS] | | SERIOUS EYE DAMAC SKIN CORROSION/IRI | mal) - Category 4 alation) - Category 4 C HAZARD - Category 2 C HAZARD - Category 3 GE/ EYE IRRITATION - Category 1 GE/ EYE IRRITATION - Category 2 RITATION - Category 2 | | |
| Full text of abbreviated R phrases | R41- Risk of serious R38- Irritating to skin R36/38- Irritating to e R43- May cause sen R51/53- Toxic to aqu aquatic environment. | R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R41- Risk of serious damage to eyes. R38- Irritating to skin. R36/38- Irritating to eyes and skin. R43- May cause sensitisation by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the | | | |
| Full text of classifications [DSD/DPD] | : Xn - Harmful Xi - Irritant N - Dangerous for the | e environment | | | |
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| Date of issue/ Date of revision | : 3/19/2015. | | | | |
| Date of previous issue | : No previous validatio | n. | | | |
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| Notice to reader | | | | | |

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