SAFETY DATA SHEET

Date of issue/Date of revision

: 19 February 2024 Version





: 2.01

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

| 1.1 Product identifier | |
|----------------------------------|---|
| Product name | : SIGMACOVER 456 BASE ORANGE 3149 |
| Product code | : 000001026244 |
| Other means of identifica | tion |
| 00140002; 00149935; 0019 | 00904; 00196050; 00286778 |
| | |
| 1.2 Relevant identified use | s of the substance or mixture and uses advised against |
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating. |
| 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 Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797 | |
|--|---------------------|
| Fax: 00202 516 223 797 Fax: 00202 516 38 04 e-mail address of person responsible for this SDS | : PS.ACEMEA@ppg.com |
| 1.4 Emergency telephone | : +20 2 6840902 |

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

Skin Sens. 1, H317 Aquatic Chronic 3, H412

number

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



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SECTION 2: Hazards identification

| Signal word | : Warning |
|---|--|
| Hazard statements | Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. |
| Precautionary statements | |
| Prevention | : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour. |
| Response | : Take off contaminated clothing and wash it before reuse. |
| Storage | : Not applicable. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P362 + P364, P501 |
| Hazardous ingredients | : epoxy resin (MW ≤ 700) 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine |
| Supplemental label elements | : Contains epoxy constituents. May produce an allergic reaction. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
| Special packaging requirem | nents |
| Containers to be fitted with child-resistant 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 result in classification | : Prolonged or repeated contact may dry skin and cause irritation. |
| | |

SECTION 3: Composition/information on ingredients

| 3.2 Mixtures | : Mixture | | | | |
|-------------------------|-------------|--------|----------------|---|------|
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| | <u> </u> | Englis | ו (GB) | Egypt | 2/15 |

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|---|--|-------------|--|---|---------|
| SECTION 3: Composition/information on ingredients | | | | | |
| x ylene | EC: 215-535-7 CAS: 1330-20-7 | ≥10 - ≤18 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| epoxy resin (MW ≤ 700) | REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 | ≥5.0 - ≤10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≤1.0 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | - | [1] [2] |
| 1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene | REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2 | <1.0 | Skin Sens. 1, H317 Aquatic Chronic 4, H413 | - | [1] [2] |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0 | ≤0.30 | Skin Sens. 1B, H317 Aquatic Chronic 3, H412 | - | [1] |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 | ≤0.30 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| | | | See Section 16 for the full text of the 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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

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|----------|-------------------------|
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SECTION 4: First aid measures

| 4.1 Description of first aid n | neasures |
|--------------------------------|---|
| Eye contact | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
| Inhalation | 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. |
| Skin contact | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. |
| 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. |

| 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. |
| Ingestion | : No known significant effects or critical hazards. |
| <u>Over-exposure signs/sy</u> | <u>mptoms</u> |
| 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 dryness cracking |
| Ingestion | : No specific data. |
| .3 Indication of any imm | ediate 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 | : No specific treatment. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media | |
|--------------------------------|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

| Hazards from the substance or mixture | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. 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. |
|---|--|
| Hazardous combustion products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special precautions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if 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. |
| Special protective equipment for fire-fighters | : 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. |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, pro | ptective 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 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. |
| 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. |

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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. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. 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: 0 to 35°C (32 to 95°F). 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 oxidising 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.

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 | | | | |
|--|--|--|------|--|--|
| x ylene | Law Number 4 of 1994, Er limits for air pollutants ins | • | | | |
| | [xylene (o-, m-, p-isomers |)] | - | | |
| | STEL: 651 mg/m ³ 15 minu | ites. | | | |
| | STEL: 150 ppm 15 minute | S. | | | |
| | TWA: 434 mg/m ³ 8 hours. | | | | |
| | TWA: 100 ppm 8 hours. | | | | |
| Talc , not containing asbestiform fibres | ACGIH TLV (United States | s, 1/2023). | | | |
| | TWA: 2 mg/m ³ 8 hours. Fo | orm: Respirable | | | |
| ethylbenzene | Law Number 4 of 1994, Er limits for air pollutants ins STEL: 543 mg/m ³ 15 minu | nvironmental Law, Annex side workplaces (Egypt, 8 | | | |
| | English (GB) | Egypt | 6/15 | | |

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| 2-methylpropan-1-ol | | STEL: 125 ppm 15 min TWA: 434 mg/m ³ 8 hou TWA: 100 ppm 8 hours Law Number 4 of 1994, limits for air pollutants TWA: 152 mg/m ³ 8 hou TWA: 50 ppm 8 hours. | rs. Environmental Law, inside workplaces (l | |
| Recommended monitoring procedures | Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen | d be made to monitoring s 9 (Workplace atmospheres chemical agents for compa ean Standard EN 14042 (V use of procedures for the a s) European Standard EN the performance of proce- nce to national guidance do bstances will also be require | s - Guidance for the as rison with limit values Vorkplace atmosphere ssessment of exposu 482 (Workplace atmo dures for the measure ocuments for methods | ssessment of exposure and measurement es - Guide for the re to chemical and ospheres - General ement of chemical |
| 8.2 Exposure controls | | | | |
| Appropriate engineering controls | other engineering recommended o | equate ventilation. Use pr g controls to keep worker or r statutory limits. The engi oncentrations below any lo ment. | exposure to airborne of ineering controls also | contaminants below any need to keep gas, |
| Individual protection measur | <u>'es</u> | | | |
| Hygiene measures | eating, smoking Appropriate tech Contaminated wo contaminated clo | rearms and face thoroughly and using the lavatory and iniques should be used to r ork clothing should not be othing before reusing. Ens se to the workstation location | at the end of the wor remove potentially cor allowed out of the wo sure that eyewash stat | king period. ntaminated clothing. rkplace. Wash |
| Eye/face protection Skin protection | : Chemical splash | i goggles. | | |
| Hand protection | worn at all times necessary. Cons during use that th noted that the tin glove manufactu protection time o frequently repeat (breakthrough tin When only brief o (breakthrough tin The user must cl product is the mo | ant, impervious gloves com when handling chemical p sidering the parameters sp he gloves are still retaining ne to breakthrough for any irers. In the case of mixtur of the gloves cannot be acc ted contact may occur, a g me greater than 480 minute contact is expected, a glov me greater than 30 minutes heck that the final choice of ost appropriate and takes i e user's risk assessment. | products if a risk assess becified by the glove m their protective proper glove material may b res, consisting of seve curately estimated. W love with a protection es according to EN 37 we with a protection cla s according to EN 374 of type of glove selected | essment indicates this is nanufacturer, check erties. It should be e different for different eral substances, the then prolonged or class of 6 74) is recommended. ass of 2 or higher 4) is recommended. ed for handling this |
| Gloves | : butyl rubber | | | |
| Body protection | performed and the handling this pro- static protective of should include an | ive equipment for the body he risks involved and shou duct. When there is a risk clothing. For the greatest nti-static overalls, boots an information on material and | Id be approved by a s of ignition from static protection from static d gloves. Refer to Eu | pecialist before electricity, wear anti- discharges, clothing uropean Standard EN |
| Other skin protection | Appropriate foot based on the tas | wear and any additional sk sk being performed and the handling this product. | in protection measure | es should be selected |
| Respiratory protection | : | | | |
| | | English (GB) | Egypt | 7/15 |

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| Environmental exposure | : Emissions from ventilatio | n or work process equipment should | be checked to ensure |

controls

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| Appearance | | | | | | | | |
|---|---|---|-------------------------------------|-----------|-------------------|------------|------------|--------------|
| Physical state | : | Liquid. | | | | | | |
| Colour | ÷ | Orange. | | | | | | |
| Odour | ÷ | Aromatic. | | | | | | |
| Odour threshold | ÷ | Not available. | | | | | | |
| Melting point/freezing point | : | May start to solidify a data for the following 3,6-diphenyl Weigh | ingredier | it: Pyrro | lo[3,4-c]pyrrole | e-1,4-dior | | |
| Initial boiling point and boiling range | : | >37.78°C | | - | . , | | | |
| Flammability | : | Not available. | | | | | | |
| Upper/lower flammability or explosive limits | : | Greatest known rang | e: Lower: | 1.7% l | Jpper: 10.9% (| 2-methy | propan-1 | -ol) |
| Flash point | : | Closed cup: 26°C | | | | | | |
| Auto-ignition temperature | : | 415°C (779°F) | 415°C (779°F) | | | | | |
| Decomposition temperature | : | Stable under recomn | nended st | orage a | nd handling co | onditions | (see Sec | tion 7). |
| ЭΗ | : | Not applicable. insolu | Not applicable. insoluble in water. | | | | | |
| /iscosity | : | Kinematic (40°C): >2 | 21 mm²/s | | | | | |
| Viscosity | : | 60 - 100 s (ISO 6mm | ı) | | | | | |
| Solubility(ies) | : | | | | | | | |
| Media | | Result | | | | | | |
| cold water | | Not soluble | | | | | | |
| Partition coefficient: n-octanol/ water | : | Not applicable. | | | | | | |
| Vapour pressure | : | la una di anta anno a | Vapou | ır Press | sure at 20°C | Vapo | our press | sure at 50°C |
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | 2-methylpropan-1-ol | <12.00102 | <1.6 | DIN EN 13016-2 | | | |
| Evaporation rate | : | Highest known value butyl acetate | : 0.84 (etł | nylbenze | ene) Weighted | l average | e: 0.77co | mpared with |
| Relative density | : | 1.38 | | | | | | |
| Vapour density | : | Highest known value | : 3.7 (Air | = 1) (x | ylene). Weigh | ted avera | age: 3.65 | (Air = 1) |
| Explosive properties | : | The product itself is r vapour or dust with a | | | the formation | of an exp | olosible m | nixture of |
| Oxidising properties | : | Product does not pre | sent an o | xidizing | hazard. | | | |
| | | | | | | | | |

Median particle size

9.2 Other information

No additional information.

: Not applicable.

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SECTION 10: Stability and reactivity

| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides |
|--|---|
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 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. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.2 Chemical stability | : The product is stable. |
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------|---------|-------------|----------|
| X lene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| epoxy resin (MW ≤ 700) | LD50 Dermal | Rabbit | >2 g/kg | - |
| | LD50 Oral | Rat | >2 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| Reaction products of | LC50 Inhalation Dusts and | Rat | >5.08 mg/l | 4 hours |
| 12-hydroxyoctadecanoic acid and | mists | | | |
| octadecanoic acid and | | | | |
| 1,3-phenylenedimethanamine | | | | |
| Octadecanoic acid, 12-hydroxy-, reaction | LC50 Inhalation Dusts and | Rat | 5.05 mg/l | 4 hours |
| products with ethylenediamine | mists | | | |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| trizinc bis(orthophosphate) | LC50 Inhalation Dusts and | Rat | >5.7 mg/l | 4 hours |
| | mists | | | |
| | LD50 Oral | Rat | >5000 mg/kg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

| Product/ingredient name | | Result | Species | Score | Exposure | Observation |
|---|---|--|----------------------------|-------------|---------------------------|-------------|
| xylene epoxy resin (MW ≤ 700) | | Skin - Moderate irritant Eyes - Mild irritant Skin - Mild irritant | Rabbit Rabbit 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 | ratory : There are no data available on the mixture itself. | | | | | |

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SECTION 11: Toxicological information

Sensitisation

| | | Route of exposure | Species | Result |
|----------------------------|-------------------------------|---------------------|---------------------|----------------------------|
| | | skin skin | Mouse Guinea pig | Sensitising Sensitising |
| Conclusion/Summary | | • | - | |
| Skin | : There are no data avai | lable on the mixtur | re itself. | |
| Respiratory | : There are no data avai | lable on the mixtur | re itself. | |
| Mutagenicity | | | | |
| Conclusion/Summary | : There are no data avai | lable on the mixtur | re itself. | |
| Carcinogenicity | | | | |
| Conclusion/Summary | : There are no data avai | lable on the mixtur | re itself. | |
| Reproductive toxicity | | | | |
| Conclusion/Summary | : There are no data avai | lable on the mixtur | re itself. | |
| Teratogenicity | | | | |
| Conclusion/Summary | : There are no data avai | lable on the mixtur | re itself. | |
| Specific target organ toxi | <u>city (single exposure)</u> | | | |

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------------|--|-------------------|--|
| xylene 2-methylpropan-1-ol | Category 3 Category 3 Category 3 | - | Respiratory tract irritation Respiratory tract irritation Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Produ | ict/ingredient name | Result | | |
|--|--|---|--|--|
| xylene ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 | | |
| Information on likely routes of exposure | : Not available. | | | |
| Potential acute health ef | fects | | | |
| Inhalation | : No known significant effects or c | ritical hazards. | | |
| Ingestion | : No known significant effects or c | ritical hazards. | | |
| Skin contact | : Causes skin irritation. Defatting | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. | | |
| Eye contact | : Causes serious eye irritation. | : 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 irritation redness dryness cracking | the following: | | |

| 020/878 | | | | |
|--------------------------------|---|---|--------------------|--|
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| SECTION 11: Toxicol | logical informati | on | | |
| Eye contact | : Adverse symptoms pain or irritation watering redness | may include the following: | | |
| Delayed and immediate effe | <u>cts as well as chronic</u> | effects from short and long-term expose | <u>ure</u> | |
| Short term exposure | | | | |
| Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | Not available. | | |
| Long term exposure | | | | |
| Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | Not available. | | |
| Potential chronic health effe | ects | | | |
| Not available. | | | | |
| Conclusion/Summary | : Not available. | | | |
| General | | ed contact can defat the skin and lead to in nsitized, a severe allergic reaction may occ levels. | | |
| Carcinogenicity | : No known significan | t effects or critical hazards. | | |
| Mutagenicity | : No known significan | t effects or critical hazards. | | |
| Reproductive toxicity | : No known significan | t effects or critical hazards. | | |
| Other information | : Not available. | | | |

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---------------------------------|---|----------|
| <mark>e</mark> poxy resin (MW ≤ 700) | Acute LC50 1.8 mg/l | Daphnia | 48 hours |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine | Acute LC50 >100 mg/l | Fish | 96 hours |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | Acute EC50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 >10 mg/l | Daphnia - <i>Daphnia</i> <i>magna</i> | 48 hours |
| | English (GB) | Egypt | 11/15 |

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| SECTION 12: Ecological information | 1 | | |
| | Acute LC50 >10 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| trizinc bis(orthophosphate) | Acute LC50 0.112 mg/l | Fish | 96 hours |

Chronic NOEC 0.026 mg/l

Fish

30 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|---|---|------|----------|
| Poxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | OECD 301F - 301D Ready Biodegradability - Closed Bottle Test | 5 % - 28 days 79 % - Readily - 10 days 22 % - 28 days | - | |

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

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|---|
| ylene epoxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | | | Readily Not readily Readily Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------------------------------|--------------------------------------|----------------------------------|
| ylene epoxy resin (MW ≤ 700) ethylbenzene 2-methylpropan-1-ol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | 3.12 3 3.6 1 >5.86 | 7.4 to 18.5 31 79.43 - - | Low Low Low Low High |

12.4 Mobility in soil

| Soil/water partition coefficient (Koc) | : Not available. |
|--|------------------|
| 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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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 | 1 | Yes. |
| European waste catalogue | (E | <u>WC)</u> |

| Waste code | Waste designation |
|------------|---|
| 08 01 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 ć | 15 01 06 | mixed packaging | | |
| Special precautions | taken when Empty conta residues ma Do not cut, v | al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly twoid dispersal of spilt material and runoff and contact with soil, waterways, sewers. | | |

SECTION 14: Transport information

| | ADR/RID | IMDG | ΙΑΤΑ |
|------------------------------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | Ш | 111 | III |
| 14.5 Environmental hazards | No. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

Additional information

| ADR/RID | : None identified. |
|-------------|--------------------|
| Tunnel code | : (D/E) |
| IMDG | : None identified. |
| ΙΑΤΑ | : None identified. |

| Conforms to 2020/878 | Regulation (EC) No | . 1907/2006 (REACH), Annex II, as amended by Commissio | on Regulation (EU) |
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SECTION 14: Transport information

| 14.6 Special precautions for | : | Transport within user's premises: always transport in closed containers that are |
|------------------------------|---|---|
| user | | upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |

14.7 Transport in bulk : Not applicable. according to IMO instruments

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. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations. **Explosive precursors** : Not applicable. 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

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | CLP = C 1272/20 DNEL = EUH sta PNEC = | cute Toxicity Estimate Classification, Labelling and Packaging Regulation [Regulation (EC) No. 08] Derived No Effect Level Itement = CLP-specific Hazard statement Predicted No Effect Concentration REACH Registration Number |
|--|--|---|
| Full text of abbreviated H statements | : H225 H226 H304 H312 H315 H317 H318 H319 H332 H335 H336 H373 H400 | Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. |
| | | |

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| | H410Very toxic to aquatic life withH411Toxic to aquatic life with lonH412Harmful to aquatic life with lH413May cause long lasting harm | g lasting effects. ong lasting effects. |
| Full text of classifications [CLP/GHS] | Aquatic Acute 1SHORT-TAquatic Chronic 1LONG-TEAquatic Chronic 2LONG-TEAquatic Chronic 3LONG-TEAquatic Chronic 4LONG-TEAquatic Chronic 4LONG-TEAquatic Chronic 4LONG-TEAsp. Tox. 1ASPIRATIEye Dam. 1SERIOUSEye Irrit. 2SERIOUSFlam. Liq. 2FLAMMAESkin Irrit. 2SKIN COFSkin Sens. 1SKIN SENStort RE 2SPECIFICEXPOSUFSTOT SE 3 | OXICITY - Category 4 ERM (ACUTE) AQUATIC HAZARD - Category 1 RM (CHRONIC) AQUATIC HAZARD - Category 2 RM (CHRONIC) AQUATIC HAZARD - Category 2 RM (CHRONIC) AQUATIC HAZARD - Category 3 RM (CHRONIC) AQUATIC HAZARD - Category 4 ION HAZARD - Category 1 EYE DAMAGE/EYE IRRITATION - Category 1 EYE DAMAGE/EYE IRRITATION - Category 2 BLE LIQUIDS - Category 2 BLE LIQUIDS - Category 3 RROSION/IRRITATION - Category 2 ISITISATION - Category 1 ISITISATION - Category 1 ISITISATION - Category 1 EYE ARGET ORGAN TOXICITY - REPEATED RE - Category 2 CTARGET ORGAN TOXICITY - SINGLE RE - Category 3 |
| <u>History</u> | | |
| Date of issue/ Date of revision | : 19 February 2024 | |
| Date of previous issue | : 23 October 2023 | |
| Prepared by | : EHS | |
| Version | : 2.01 | |
| Disclaimer | | |

<u>Disclaimer</u>

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