# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 13 December 2024 Version



# PPG

: 4.04

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

| 1.1 Product identifier                  |   |
|---|---|
| Product name                            | : SIGMACOVER 456 BASE (LEAD FREE COLOURS)                         |
| Product code                            | : 00191820  |
| Other means of identification           | tion  |
| Not available.                          |   |
| 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/<br>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<br>New Maadi, Cairo |   |
| Equat                                   |   |

Egypt Tel: 00202 516 223 797 Fax: 00202 516 38 04 e-mail address of person : PS.ACEMEA@ppg.com responsible for this SDS

1.4 Emergency telephone : +20 2 6840902 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 STOT SE 3, H335 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

: Warning

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### **SECTION 2: Hazards identification**

| Hazard statements   | <ul> <li>Flammable liquid and vapour.<br/>Causes skin irritation.<br/>May cause an allergic skin reaction.<br/>Causes serious eye irritation.<br/>May cause respiratory irritation.<br/>Harmful to aquatic life with long lasting effects.</li> </ul> |
|---|---|
| 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.   |
| Response  | : IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  |
| Storage   | : Store in a well-ventilated place. Keep container tightly closed.  |
| Disposal  | <ul> <li>Dispose of contents and container in accordance with all local, regional, national and<br/>international regulations.</li> <li>P280, P210, P273, P304 + P312, P403 + P233, P501</li> </ul>   |
| Supplemental label<br>elements  | : Contains epoxy constituents. May produce an allergic reaction.  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : Not applicable.   |
| Special packaging requiren  | <u>nents</u>  |
| 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 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.<br>Limits, M-factors<br>and ATEs                         | Туре    |
| ₩ylene                  | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Dermal] = 1700<br>mg/kg<br>ATE [Inhalation<br>(vapours)] = 11 mg/l | [1] [2] |
| English (GB) Egypt 2/15 |   |           |  |   | 2/15    |

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|---|---|-------------|---|---|----------|--|
| SIGMACOVER 456 BASE (LEAD FREE COLOURS)   |   |             |   |   |          |  |
| SECTION 3: Comp   | osition/informat  | tion on ii  | ngredients  |   |          |  |
| epoxy resin (MW  ≤ 700)   | REACH #:<br>01-2119456619-26<br>EC: 500-033-5<br>CAS: 25068-38-6                      | ≥5.0 - ≤10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                      | Skin Irrit. 2, H315: C ≥<br>5%<br>Eye Irrit. 2, H319: C ≥<br>5% | [1]      |  |
| ethylbenzene  | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Inhalation<br>(vapours)] = 17.8 mg/l                       | [1] [2]  |  |
| 2-methylpropan-1-ol   | REACH #:<br>01-2119484609-23<br>EC: 201-148-0<br>CAS: 78-83-1<br>Index: 603-108-00-1  | ≥1.0 - <3.0 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336                             | -   | [1] [2]  |  |
| 1,3-bis[12-hydroxy-<br>octadecamide-N-<br>methylene]-benzene                    | REACH #:<br>01-2119962189-26<br>CAS: 911674-82-3<br>Index: 616-198-00-2               | <1.0        | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413   | -   | [1] [2]  |  |
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | REACH #:<br>01-2119979085-27<br>EC: 309-629-8<br>CAS: 100545-48-0                     | ≤0.30       | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412  | -   | [1]      |  |
|   |   |             | See Section 16 for<br>the full text of the H<br>statements declared   |   |          |  |

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.

above.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <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.

## SECTION 4: First aid measures

| 4.1 Description of firs | t aid measures   |
|-------------------------|--|
| Eye contact             | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids<br/>apart for at least 10 minutes and seek immediate medical advice.</li> </ul>  |
| Inhalation              | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained<br/>personnel.</li> </ul> |
| Skin contact            | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water<br/>or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion               | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.   |

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| SECTION 4: First aid        | d measures  |  |  |
| Protection of first-aiders  | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. |  |  |
|                             | ns and effects, both acute and delayed  |  |  |
| Potential acute health effe | —   |  |  |
| Eye contact                 | : Causes serious eye irritation.  |  |  |
| Inhalation                  | May cause respiratory irritation.   |  |  |
| Skin contact                | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.   |  |  |
| Ingestion                   | : No known significant effects or critical hazards.   |  |  |
| Over-exposure signs/sym     | <u>otoms</u>  |  |  |
| Eye contact                 | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |  |  |
| Inhalation                  | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing   |  |  |
| Skin contact                | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |  |  |
| Ingestion                   | : No specific data.   |  |  |
| 4.3 Indication of any immed | iate medical attention and special treatment needed   |  |  |
| Notes to physician          | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>   |  |  |
| Specific treatments         | No specific treatment.  |  |  |

## **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media               |  |
|---------------------------------------|--|
| Suitable extinguishing media          | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| Unsuitable extinguishing media        | : Do not use water jet.  |
| 5.2 Special hazards arising fr        | rom the substance or mixture   |
| 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:<br>carbon oxides<br>sulfur oxides<br>halogenated compounds<br>metal oxide/oxides   |

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## **SECTION 5: Firefighting measures**

| 5.3 Advice for firefighters                       |   |   |
|---|---|---|
| Special precautions for<br>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<br>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, protective equipment and emergency procedures |  |  |  |  |
|---|--|--|--|--|
| For non-emergency<br>personnel  | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Shut off all ignition sources. No<br>flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>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 spill product. |  |  |  |
| 6.4 Reference to other sections   | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>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

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### **SECTION 7: Handling and storage**

| 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<br>storage, including any<br>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. Store locked up. 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         | Exp   | oosure limit values               |            |  |
|---------------------------------|---|-----------------------------------|------------|--|
| <mark>ቓ</mark> arium sulfate    | ACGIH TLV (United State                                     | ACGIH TLV (United States, 7/2023) |            |  |
|                                 | TWA 8 hours: 5 mg/m <sup>3</sup> . F                        |                                   |            |  |
| xylene                          | -   | nvironmental Law, Annex 8 - N     |            |  |
|                                 | limits for air pollutants in                                | side workplaces (Egypt, 8/201     | 1) [xylene |  |
|                                 | (o-, m-, p-isomers)]  |                                   |            |  |
|                                 | STEL 15 minutes: 651 mg                                     | J/m³.                             |            |  |
|                                 | STEL 15 minutes: 150 pp                                     | m.                                |            |  |
|                                 | TWA 8 hours: 434 mg/m <sup>3</sup>                          |                                   |            |  |
|                                 | TWA 8 hours: 100 ppm.                                       |                                   |            |  |
| ethylbenzene                    | Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum  |                                   |            |  |
|                                 | limits for air pollutants inside workplaces (Egypt, 8/2011) |                                   |            |  |
|                                 | STEL 15 minutes: 543 mg                                     | ı/m³.                             | •          |  |
|                                 | STEL 15 minutes: 125 pp                                     |                                   |            |  |
|                                 | TWA 8 hours: 434 mg/m <sup>3</sup> .                        |                                   |            |  |
|                                 | TWA 8 hours: 100 ppm.                                       |                                   |            |  |
| carbon black, respirable powder |   | nvironmental Law, Annex 8 - N     | laximum    |  |
| <u>.</u>                        | English (GB)  | Egypt                             | 6/15       |  |

#### 2020/878 Code : 00191820 Date of issue/Date of revision : 13 December 2024 SIGMACOVER 456 BASE (LEAD FREE COLOURS) limits for air pollutants inside workplaces (Egypt, 8/2011) TWA 8 hours: 3.5 mg/m<sup>3</sup>. 2-methylpropan-1-ol Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011) TWA 8 hours: 152 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. ACGIH TLV (United States) 1,3-bis[12-hydroxy-octadecamide-N-methylene]benzene TWA: 3 mg/m<sup>3</sup> (Respirable fraction). TWA: 10 mg/m<sup>3</sup> (Total dust). **x**ylene DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 d/d creatinine, methylhippuric acid [in urine]. Sampling time: end of shift. ethylbenzene DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift. : Reference should be made to monitoring standards, such as the following: European **Recommended monitoring** procedures 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. 8.2 Exposure controls **Appropriate engineering** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or controls 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** : 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 ÷. Chemical splash goggles. **Skin protection** Hand protection : 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. Gloves butyl rubber 2

English (GB)

Egypt

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

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| Body protection                 | : 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 antistatic 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. |
|---------------------------------|---|
| Other skin protection           | 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.   |
| <b>Respiratory protection</b>   | :   |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>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

| <u>Appearance</u>                               |   |
|---|---|
| Physical state                                  | : Liquid.   |
| Colour  | : Various   |
| Odour   | : Aromatic.   |
| Odour threshold                                 | : Not available.  |
| Melting point/freezing point                    | : Not determined.   |
| Initial boiling point and<br>boiling range      | : >37.78°C  |
| Flammability                                    | : Not determined. There are no data available on the mixture itself.  |
| Upper/lower flammability or<br>explosive limits | : Not available.  |
| Flash point                                     | : Closed cup: 27°C  |
| Auto-ignition temperature                       | : 430°C (806°F)   |
| Decomposition temperature                       | : Stable under recommended storage and handling conditions (see Section 7).   |
| рН  | : Not applicable. insoluble in water.   |
| Viscosity                                       | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): >400 mm²/s<br>Kinematic (40°C): >21 mm²/s |
| Viscosity                                       | : 60 - 100 s (ISO 6mm)  |
| Solubility(ies)                                 |   |

# Media Result cold water Not soluble

Partition coefficient: n-octanol/ : Not applicable. water

| Vapour pressure      | :   |              | Vapour Pressure at 20°C |                   |           | Vapour pressure at 50°C |            |
|----------------------|---|--------------|-------------------------|-------------------|-----------|-------------------------|------------|
|                      | Ingredient name                           | e mm Hg      | kPa                     | Method            | mm<br>Hg  | kPa                     | Method     |
|                      | 2-methylpropan-1-ol                       | <12.00102    | <1.6                    | DIN EN<br>13016-2 |           |                         |            |
| Relative density     | : 1.4                                     |              |                         |                   |           |                         |            |
| Explosive properties | : The product itself<br>vapour or dust wi | •            |                         | t the formation   | of an exp | olosible m              | nixture of |
| Oxidising properties | : Product does not                        | present an o | xidizing                | g hazard.         |           |                         |            |
| -                    | E   | English (GB) |                         |                   | Egypt     |                         | 8/15       |

| Conforms to Regulation (EC) 2020/878     | No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)   |
|--|---|
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| <b>SECTION 9: Physica</b>                | I and chemical properties   |
| Particle characteristics                 |   |
| Median particle size                     | : Not applicable.   |
| 9.2 Other information                    |   |
| No additional information.               |   |
| <b>SECTION 10: Stabilit</b>              | y 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 hazardous reactions  | : 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.<br>Refer to protective measures listed in sections 7 and 8.               |
| 10.5 Incompatible materials              | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.                            |
| 10.6 Hazardous<br>decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur 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 |
|--|---------------------------|---------|---|----------|
| <b>x</b> ylene                           | 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                              | -        |
| 1,3-bis[12-hydroxy-octadecamide-N-       | LC50 Inhalation Dusts and | Rat     | >5.08 mg/l                              | 4 hours  |
| methylene]-benzene                       | mists                     |         | , i i i i i i i i i i i i i i i i i i i |          |
| 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                             | -        |

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

#### Irritation/Corrosion

| Product/ingredient name           | Result   | Species                    | Score       | Exposure                  | Observation |
|-----------------------------------|--|----------------------------|-------------|---------------------------|-------------|
| xylene<br>epoxy resin (MW  ≤ 700) | Skin - Moderate irritant<br>Eyes - Mild irritant<br>Skin - Mild irritant | Rabbit<br>Rabbit<br>Rabbit | -<br>-<br>- | 24 hours 500 mg<br>-<br>- | -<br>-<br>- |

#### **Conclusion/Summary**

#### Skin

: There are no data available on the mixture itself.

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## **SECTION 11: Toxicological information**

**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 Species** Result exposure epoxy resin (MW  $\leq$  700) Sensitising skin Mouse Octadecanoic acid, 12-hydroxy-, reaction products with skin Guinea pig Sensitising

#### **Conclusion/Summary**

ethylenediamine

| Skin                       | : There are no data available on the mixture itself. |
|----------------------------|--|
| Respiratory                | : There are no data available on the mixture itself. |
| Mutagenicity               |  |
| <b>Conclusion/Summary</b>  | : There are no data available on the mixture itself. |
| <b>Carcinogenicity</b>     |  |
| <b>Conclusion/Summary</b>  | : There are no data available on the mixture itself. |
| Reproductive toxicity      |  |
| <b>Conclusion/Summary</b>  | : There are no data available on the mixture itself. |
| <b>Teratogenicity</b>      |  |
| Conclusion/Summary         | : There are no data available on the mixture itself. |
| Specific target organ toxi | <u>city (single exposure)</u>                        |

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

#### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

| Product/ingredient name                  |                  | Result   |
|--|------------------|--|
| xylene<br>ethylbenzene                   |                  | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |
| Information on likely routes of exposure | : Not available. |  |

#### Potential acute health effects

| Inhalation                  | :         | May cause respiratory irritation.   |
|-----------------------------|-----------|---|
| 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 phy | <u>ys</u> | ical, chemical and toxicological characteristics  |
| Inhalation                  | :         | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| Ingestion                   | :         | No specific data.   |

**SECTION 11: Toxicological information** 

|                                | -9   |
|--------------------------------|--|
| Skin contact                   | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking  |
| Eye contact                    | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness   |
| Delayed and immediate effe     | cts as well as chronic effects from short and long-term exposure   |
| Short term exposure            |  |
| Potential immediate<br>effects | : Not available.   |
| Potential delayed effects      | : Not available.   |
| <u>Long term exposure</u>      |  |
| Potential immediate<br>effects | : Not available.   |
| Potential delayed effects      | : Not available.   |
| Potential chronic health effe  | ects   |
| Not available.                 |  |
| <b>Conclusion/Summary</b>      | : Not available.   |
| General                        | <ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or<br/>dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently<br/>exposed to very low levels.</li> </ul> |
| Carcinogenicity                | : No known significant effects or critical hazards.  |
| Mutagenicity                   | : No known significant effects or critical hazards.  |
| Reproductive toxicity          | : No known significant 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 -<br>Ceriodaphnia dubia | -        |
| 2-methylpropan-1-ol                                      | Acute EC50 1100 mg/l            | Daphnia                         | 48 hours |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]-<br>benzene | Acute LC50 >100 mg/l            | Fish                            | 96 hours |
| Octadecanoic acid, 12-hydroxy-, reaction products        | Acute EC50 >100 mg/l            | Algae -                         | 72 hours |
|  | English (GB)                    | Egypt                           | 11/15    |

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| <b>SECTION 12: Ecological information</b> |                          |  |                    |  |
| with ethylenediamine                      | Acute EC50 >10 mg/l      | Pseudokirchneriella<br>subcapitata<br>Daphnia - Daphnia<br>magna | 48 hours           |  |

Acute LC50 >10 mg/l

Fish - Oncorhynchus 96 hours

mykiss

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

| Product/ingredient name  | Test  | Result  | Dose | Inoculum |
|--|---|---|------|----------|
| Prove the provided and the provention of the provention of the provention of the products with the products with the product of the produ | OECD 301F<br>-<br>301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 5 % - 28 days<br>79 % - Readily - 10 days<br>22 % - 28 days | -    |          |

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

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

#### 12.3 Bioaccumulative potential

| Product/ingredient name   | LogPow                         | BCF                                  | Potential                        |
|---|--------------------------------|--------------------------------------|----------------------------------|
| ylene<br>epoxy resin (MW ≤ 700)<br>ethylbenzene<br>2-methylpropan-1-ol<br>Octadecanoic acid, 12-hydroxy-, reaction products<br>with ethylenediamine | 3.12<br>3<br>3.6<br>1<br>>5.86 | 7.4 to 18.5<br>31<br>79.43<br>-<br>- | Low<br>Low<br>Low<br>Low<br>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          | :    | Yes.  |
| European waste catalogue | e (E | EWC)  |

| 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           | 15 01 06   | mixed packaging  |  |
| Special precautions | taken when handling<br>Empty containers or li<br>residues may create a<br>Do not cut, weld or gr | container must be disposed of in a safe way. Care should be<br>emptied containers that have not been cleaned or rinsed out.<br>iners may retain some product residues. Vapour from product<br>a highly flammable or explosive atmosphere inside the container.<br>ind used containers unless they have been cleaned thoroughly<br>ersal of spilt material and runoff and contact with soil, waterways, |  |

## **SECTION 14: Transport information**

|                                    | ADR/RID         | IMDG            | ΙΑΤΑ            |
|------------------------------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID<br>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             | 111             | Ш               |
| 14.5 Environmental hazards         | No.             | No.             | No.             |
| Marine pollutant<br>substances     | Not applicable. | Not applicable. | Not applicable. |

#### **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 | : (D/E)  |
| IMDG        | : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.   |

English (GB) Egypt

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| SECTION 14: Transpo                                       | ort information   |
| IATA : None iden  | tified.   |
| 14.6 Special precautions for user                         | : <b>Transport within user's premises:</b> 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. |
| 14.7 Transport in bulk<br>according to IMO<br>instruments | : Not applicable.   |
| SECTION 15: Regulat                                       | ory information   |
| 15.1 Safety, health and enviro                            | nmental regulations/legislation specific for the substance or mixture   |
| EU Regulation (EC) No. 1907                               | <u>'/2006 (REACH)</u>   |
| Annex XIV - List of substan                               | ces subject to authorisation  |
| Annex XIV   |   |
| None of the components are                                | listed.   |
| Substances of very high co                                | <u>oncern</u>   |
| None of the components are                                | listed.   |
|   | : Not applicable.   |
| on the manufacture,                                       |   |
| placing on the market<br>and use of certain               |   |
| dangerous substances,                                     |   |
| mixtures and articles                                     |   |
| Other national and internation                            | nal regulations.  |
| Explosive precursors                                      | : Not applicable.   |
| Ozone depleting substances                                | <u>s (1005/2009/EU)</u>   |
| 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.

|                               |   | English (GB)                                | Egypt                    | 14/15    |
|-------------------------------|---|---|--------------------------|----------|
|                               | H373  | May cause damage to organs through p        | rolonged or repeated ex  | kposure. |
|                               | H336  | May cause drowsiness or dizziness.          |                          |          |
|                               | H335  | May cause respiratory irritation.           |                          |          |
|                               | H332  | Harmful if inhaled.                         |                          |          |
|                               | H319  | Causes serious eye irritation.              |                          |          |
|                               | H318  | Causes serious eye damage.                  |                          |          |
|                               | H317  | May cause an allergic skin reaction.        |                          |          |
|                               | H315  | Causes skin irritation.                     |                          |          |
|                               | H312  | Harmful in contact with skin.               |                          |          |
|                               | H304  | May be fatal if swallowed and enters airv   | vays.                    |          |
| statements                    | H226  | Flammable liquid and vapour.                |                          |          |
| Full text of abbreviated H    | : H225  | Highly flammable liquid and vapour.         |                          |          |
| Abbreviations and<br>acronyms | CLP = (<br>1272/20<br>DNEL =<br>EUH sta<br>PNEC = | Classification, Labelling and Packaging Reg | gulation [Regulation (E0 | C) No.   |
| Abbreviations and             | Ŭ   | Acute Toxicity Estimate                     |                          |          |
|                               | nas changeo                                       |   |                          |          |

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Date of issue/Date of revision Code : 00191820 : 13 December 2024 SIGMACOVER 456 BASE (LEAD FREE COLOURS) **SECTION 16: Other information** H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. Full text of classifications : Acute Tox. 4 **ACUTE TOXICITY - Category 4** LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 [CLP/GHS] Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Aquatic Chronic 3 Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 Asp. Tox. 1 **ASPIRATION HAZARD - Category 1** SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Dam. 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1 **SKIN SENSITISATION - Category 1B** Skin Sens. 1B STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED **EXPOSURE - Category 2** STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE **EXPOSURE - Category 3 History** Date of issue/ Date of : 13 December 2024 revision : 11 October 2024 Date of previous issue : EHS **Prepared by** Version : 4.04

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