## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

## **SAFETY DATA SHEET**

Date of issue/Date of revision

: 7 August 2023

**Version** : 1.02



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

| 1.1 Product identifier           |   |
|----------------------------------|---|
| Product name                     | : SIGMAFAST 278 BASE RAL 7035                                     |
| Product code                     | : 40278-C7035/15L   |
| Product description              | :   |
| Product type                     | : Liquid.   |
| Other means of<br>identification | : Not available.  |
| 1.2 Relevant identified us       | es 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

PPG France Business Support SAS, 3, ZAE "Les Dix Muids", B.P. 89, 59583 Marly Cedex, France, 33 (0)3 27 19 35 00

| e-mail address of person | : Product.Stewardship.EMEA@ppg.com |
|--------------------------|------------------------------------|
| responsible for this SDS |                                    |

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

#### 1.4 Emergency telephone number Supplier

+33 (0)3 27 19 35 00 (0800-1700)

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

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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.



| Code<br>SIGMAFA | : 40278-C7035/15L<br>AST 278 BASE RAL 7035 | Date of issue/Date of revision | : 7 August 2023 |
|-----------------|--|--------------------------------|-----------------|
| SECTI           | ON 2: Hazards identifica                   | tion                           |                 |

| Hazard statements   |    | Flammable liquid and vapour.   |
|---|----|--|
| nazaru statements   | 1  | Causes severe skin burns and eye damage.   |
|   |    | May cause an allergic skin reaction.   |
|   |    | Suspected of damaging fertility. Suspected of damaging the unborn child.<br>Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements  |    |  |
| Prevention  | :  | Wear protective gloves, protective clothing and 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  | :  | Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.  |
| Storage   | 1  | Not applicable.  |
| Disposal  | 1  | Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
|   |    | P280, P210, P273, P391, P304 + P310, P501  |
| Supplemental label elements   | 1  | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.   |
| 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 requirem  | en | <u>ts</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<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | :  | 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**

Mixture

| Product/ingredient name   | Identifiers  | %          | Classification  | Туре    |
|---|--|------------|---|---------|
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular weight | REACH #:<br>01-2119456619-26<br>EC: 500-033-5  | ≥10 - ≤25  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   | [1]     |
| ≤ 700)  | CAS: 25068-38-6<br>Index: 603-074-00-8   |            | Aquatic Chronic 2,<br>H411  |         |
| xylene  | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥5.0 - ≤10 | 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 | [1] [2] |
| nonylphenol   | EC: 246-672-0<br>CAS: 25154-52-3<br>Index: 601-053-00-8                                | ≥5.0 - ≤10 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>Aquatic Acute 1, H400   | [1] [3] |

| <mark>Code</mark><br>SIGMAFAST | : 40278-C7035/15L<br>278 BASE RAL 7035            | Date of issue/Date of revision | : 7 August 2023 |  |
|--------------------------------|---|--------------------------------|-----------------|--|
| SECTION                        | SECTION 3: Composition/information on ingredients |                                |                 |  |

| •  |   |             |  |         |
|--|---|-------------|--|---------|
| 1-methoxy-2-propanol                                     | REACH #:<br>01-2119457435-35<br>EC: 203-539-1   | ≥1.0 - ≤5.0 | (M=10)<br>Aquatic Chronic 1,<br>H410 (M=10)<br>Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| ethylbenzene   | CAS: 107-98-2<br>Index: 603-064-00-3<br>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   | [1] [2] |
| oxirane, mono[(C12-14-alkyloxy)                          | REACH #:  | ≥1.0 - ≤5.0 | Aquatic Chronic 3,<br>H412<br>Skin Irrit. 2, H315  | [1]     |
| methyl] derivs.  | 01-2119485289-22<br>EC: 271-846-8<br>CAS: 68609-97-2<br>Index: 603-103-00-4   |             | Skin Sens. 1, H317   |         |
| trizinc bis(orthophosphate)                              | REACH #:<br>01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6  | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400<br>(M=1)<br>Aquatic Chronic 1,<br>H410 (M=1)   | [1]     |
| 1,3-bis[12-hydroxy-octadecamide-<br>N-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,<br>H413   | [1]     |
| Fatty acids, C14-18 and C16-18-unsatd., maleated         | REACH #:<br>01-2119978273-29<br>EC: 288-306-2<br>CAS: 85711-46-2  | ≤0.30       | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   | [1]     |
| p-nonylphenol  | EC: 203-199-4<br>CAS: 104-40-5  | ≤0.10       | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361<br>Aquatic Acute 1, H400<br>(M=10)<br>Aquatic Chronic 1,<br>H410 (M=10)                           | [1] [3] |
| maleic anhydride   | REACH #:<br>01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9   | ≤0.10       | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372<br>(respiratory system)<br>(inhalation)<br>EUH071 | [1] [2] |
| There are no additional ingradiants r                    |   |             | See Section 16 for<br>the full text of the H<br>statements declared<br>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.

#### Туре

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

Code : 40278-C7035/15L

SIGMAFAST 278 BASE RAL 7035

Date of issue/Date of revision

: 7 August 2023

### **SECTION 3: Composition/information on ingredients**

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

SUB codes represent substances without registered CAS Numbers.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| Eye contact                | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.   |
|----------------------------|---|
| 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.  |
| 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. |

#### 4.2 Most important symptoms and effects, both acute and delayed

| Potential acute health effe | <u>cts</u>  |
|-----------------------------|---|
| Eye contact                 | : Causes serious eye damage.  |
| Inhalation                  | : No known significant effects or critical hazards.   |
| Skin contact                | : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.  |
| Ingestion                   | : No known significant effects or critical hazards.   |
| Over-exposure signs/syn     | <u>iptoms</u>   |
| Eye contact                 | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                  | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations   |
| Skin contact                | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| Ingestion                   | : Adverse symptoms may include the following:<br>stomach pains<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations  |
| 4.3 Indication of any imme  | diate medical attention and special treatment needed  |
| Notes to physician          | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled.  |
| Specific treatments         | : No specific treatment.  |
|                             |   |

| Code : 40278-C7035<br>SIGMAFAST 278 BASE RAL               | -         | Date of issue/Date of revision : 7 August 2023  |
|--|-----------|---|
| SECTION 5: Firefigh  | ting      | j measures  |
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | :         | Use dry chemical, CO₂, water spray (fog) or foam.   |
| Unsuitable extinguishing media                             | :         | Do not use water jet.   |
| 5.2 Special hazards arising f                              | from      | the substance or mixture  |
| Hazards from the substance or mixture                      | <br> <br> | Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is very toxic to aquatic life with<br>long lasting effects. Fire water contaminated with this material must be contained<br>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>phosphorus oxides<br>halogenated compounds<br>metal oxide/oxides  |
| 5.3 Advice for firefighters                                |           |   |
| Special protective actions for fire-fighters               | t<br>:    | Promptly isolate the scene by removing all persons from the vicinity of the incident if<br>there is a fire. No action shall be taken involving any personal risk or without<br>suitable training. Move containers from fire area if this can be done without risk.<br>Use water spray to keep fire-exposed containers cool.   |
| Special protective<br>equipment for fire-fighters          | I         | Fire-fighters should wear appropriate protective equipment and self-contained<br>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br>mode.   |

## **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, pro  | tective 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.<br>No flares, smoking or flames in hazard area. Do not breathe vapour or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>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<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful<br>to the environment if released in large quantities. Collect spillage.   |
| 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.  |

| Code     | : 40278-C7035/15L    | Date of issue/Date of revision | : 7 August 2023 |
|----------|----------------------|--------------------------------|-----------------|
| SIGMAFAS | ST 278 BASE RAL 7035 |                                |                 |

### **SECTION 6: Accidental release measures**

| 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |
|---------------------------------|--|
| 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

| 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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. 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.

Code : 40278-C7035/15L SIGMAFAST 278 BASE RAL 7035 Date of issue/Date of revision

: 7 August 2023

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

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).

#### **Occupational exposure limits**

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| xylene                  | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-<br>or mixed isomers] Absorbed through skin. |
|                         | STEL: 441 mg/m <sup>3</sup> 15 minutes.   |
|                         | STEL: 100 ppm 15 minutes.   |
|                         | TWA: 220 mg/m <sup>3</sup> 8 hours.   |
|                         | TWA: 50 ppm 8 hours.  |
| 1-methoxy-2-propanol    | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed  |
|                         | through skin.   |
|                         | STEL: 560 mg/m <sup>3</sup> 15 minutes.   |
|                         | STEL: 150 ppm 15 minutes.   |
|                         | TWA: 375 mg/m <sup>3</sup> 8 hours.   |
|                         | TWA: 100 ppm 8 hours.   |
| ethylbenzene            | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed  |
|                         | through skin.   |
|                         | STEL: 552 mg/m <sup>3</sup> 15 minutes.   |
|                         | STEL: 125 ppm 15 minutes.   |
|                         | TWA: 441 mg/m <sup>3</sup> 8 hours.   |
|                         | TWA: 100 ppm 8 hours.   |
| maleic anhydride        | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation  |
|                         | sensitiser.   |
|                         | STEL: 3 mg/m <sup>3</sup> 15 minutes.   |
|                         | TWA: 1 mg/m <sup>3</sup> 8 hours.   |

### **Biological exposure indices**

| Product/ingredient name | Exposure indices   |
|-------------------------|--|
| xylene                  | XYLENES  |
|                         | d be made to appropriate monitoring standards. Reference to e documents for methods for the determination of hazardous also be required. |

#### **DNELs/DMELs**

| Product/ingredient name   | Туре | Exposure              | Value                   | Population                                    | Effects  |
|---|------|-----------------------|-------------------------|---|----------|
| Feaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular<br>weight ≤ 700) | DNEL | Long term Inhalation  | 12.25 mg/m <sup>3</sup> | Workers                                       | Systemic |
| , , , , , , , , , , , , , , , , , , ,   | DNEL | Short term Inhalation | 12.25 mg/m <sup>3</sup> | Workers                                       | Systemic |
|   | DNEL | Long term Dermal      | 8.33 mg/kg bw/day       | Workers                                       | Systemic |
|   | DNEL | Short term Dermal     | 8.33 mg/kg bw/day       | Workers                                       | Systemic |
|   | DNEL | Long term Dermal      | 3.571 mg/kg bw/day      | General<br>population<br>[Consumers]          | Systemic |
|   | DNEL | Short term Dermal     | 3.571 mg/kg bw/day      | General<br>population<br>[Consumers]          | Systemic |
|   | DNEL | Long term Oral        | 0.75 mg/kg bw/day       | General<br>population<br>[Consumers]          | Systemic |
|   | DNEL | Short term Oral       | 0.75 mg/kg bw/day       | General<br>population<br>[Consumers]          | Systemic |
| xylene  | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population                            | Systemic |
|   | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population                            |          |
| English (GB)  | 1    | United King           | gdom (UK)               | ۱ <u>ــــــــــــــــــــــــــــــــــــ</u> | 7/19     |

Code : 40278-C7035/15L SIGMAFAST 278 BASE RAL 7035

Date of issue/Date of revision : 7 August 2023

### **SECTION 8: Exposure controls/personal protection**

|  | DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL | Long term Inhalation<br>Long term Oral<br>Long term Inhalation<br>Short term Inhalation<br>Long term Inhalation<br>Short term Inhalation<br>Long term Dermal | 65.3 mg/m <sup>3</sup><br>12.5 mg/kg bw/day<br>221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup><br>221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup> | General population<br>General population<br>Workers<br>Workers<br>Workers<br>Workers | Systemic<br>Systemic<br>Systemic<br>Local |
|--|--|--|---|--|---|
|  | DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL                         | Long term Inhalation<br>Short term Inhalation<br>Long term Inhalation<br>Short term Inhalation   | 221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup><br>221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup>  | Workers<br>Workers<br>Workers  | Systemic<br>Systemic<br>Local             |
|  | DNEL<br>DNEL<br>DNEL<br>DNEL                                 | Short term Inhalation<br>Long term Inhalation<br>Short term Inhalation   | 442 mg/m <sup>3</sup><br>221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup>   | Workers<br>Workers   | Systemic<br>Local                         |
|  | DNEL<br>DNEL<br>DNEL   | Long term Inhalation<br>Short term Inhalation  | 221 mg/m <sup>3</sup><br>442 mg/m <sup>3</sup>  | Workers  | Local                                     |
|  | DNEL<br>DNEL   | Short term Inhalation  | 442 mg/m <sup>3</sup>   |  |   |
|  | DNEL   |  |   | Workers  | 1   |
|  |  | Long term Dermal   |   |  | Local                                     |
|  | DNEL   |  | 212 mg/kg bw/day  | Workers  | Systemi                                   |
|  |  | Long term Inhalation   | 65.3 mg/m <sup>3</sup>  | General population   | Local                                     |
|  | DNEL   | Short term Inhalation  | 260 mg/m <sup>3</sup>   | General population   | Local                                     |
|  | DNEL   | Short term Inhalation  | 260 mg/m <sup>3</sup>   | General population   | Systemi                                   |
|  | DNEL   | Long term Inhalation   | 221 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DNEL   | Long term Oral   | 12.5 mg/kg bw/day   | General population   | -   |
|  | DNEL   | Long term Inhalation   | 65.3 mg/m³  | General population   | Systemi                                   |
|  | DNEL   | Long term Dermal   | 125 mg/kg bw/day  | General population   | Systemi                                   |
|  | DNEL   | Long term Dermal   | 212 mg/kg bw/day  | Workers  | Systemi                                   |
|  | DNEL   | Long term Inhalation   | 221 mg/m <sup>3</sup>   | Workers  | Systemi                                   |
|  | DNEL   | Short term Inhalation  | 442 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DNEL   | Short term Inhalation  | 442 mg/m <sup>3</sup>   | Workers  | Systemi                                   |
| 1-methoxy-2-propanol                                 | DNEL   | Long term Oral   | 33 mg/kg bw/day   | General population   | •   |
|  | DNEL   | Long term Inhalation   | 43.9 mg/m <sup>3</sup>  | General population   | Systemi                                   |
|  | DNEL   | Long term Dermal   | 78 mg/kg bw/day   | General population   | Systemi                                   |
|  | DNEL   | Long term Dermal   | 183 mg/kg bw/day  | Workers  | Systemi                                   |
|  | DNEL   | Long term Inhalation   | 369 mg/m <sup>3</sup>   | Workers  | Systemi                                   |
|  | DNEL   | Short term Inhalation  | 553.5 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DNEL   | Short term Inhalation  | 553.5 mg/m³   | Workers  | Systemi                                   |
| ethylbenzene   | DNEL   | Long term Oral   | 1.6 mg/kg bw/day  | General population   |   |
|  | DNEL   | Long term Inhalation   | 15 mg/m <sup>3</sup>  | General population   | Systemi                                   |
|  | DNEL   | Long term Inhalation   | 77 mg/m <sup>3</sup>  | Workers  | Systemi                                   |
|  | DNEL   | Long term Dermal   | 180 mg/kg bw/day  | Workers  | Systemi                                   |
|  | DNEL   | Short term Inhalation  | 293 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DMEL   | Long term Inhalation   | 442 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DMEL   | Short term Inhalation  | 884 mg/m <sup>3</sup>   | Workers  | Systemi                                   |
| oxirane, mono[<br>(C12-14-alkyloxy)methyl]<br>derive | DNEL   | Long term Oral   | 0.5 mg/kg bw/day  | General population   | Systemi                                   |
| derivs.  |  |  |   | Concret non-ulation  | C. veternei                               |
|  | DNEL   | Long term Dermal   | 0.5 mg/kg bw/day  | General population   |   |
|  | DNEL   | Long term Inhalation   | 0.87 mg/m <sup>3</sup>  | General population   |   |
|  | DNEL   | Long term Dermal   | 1 mg/kg bw/day  | Workers  | Systemi                                   |
| trizing his (orthon hoon hote)                       | DNEL   | Long term Inhalation   | $3.6 \text{ mg/m}^3$  | Workers  | Systemi                                   |
| trizinc bis(orthophosphate)                          | DNEL   | Long term Oral   | 0.83 mg/kg bw/day   | General population   | Systemi                                   |
|  | DNEL<br>DNEL   | Long term Inhalation   | 2.5 mg/m <sup>3</sup>   | General population<br>Workers  | Systemi                                   |
|  | DNEL   | Long term Inhalation   | 5 mg/m <sup>3</sup>   |  | Systemi<br>Systemi                        |
|  | DNEL   | Long term Dermal<br>Long term Dermal   | 83 mg/kg bw/day   | General population<br>Workers  |   |
| Fatty acids, C14-18 and                              | DNEL   | Long term Dermai   | 83 mg/kg bw/day<br>1.5 mg/kg bw/day   | General population   | Systemi<br>Systemi                        |
| C16-18-unsatd., maleated                             | DNEL   | Long term Dermal   | 1.5 mg/kg bw/day  | General population   | •   |
|  | DNEL   | Long term Dermal   | 3 mg/kg bw/day  | Workers  | Systemi<br>Systemi                        |
| maleic anhydrida                                     | DNEL   |  | 0.4 mg/m <sup>3</sup>   | Workers  |   |
| maleic anhydride                                     | DNEL   | Long term Inhalation   | 0.4 mg/m <sup>3</sup>   | Workers  | Systemi<br>Local                          |
|  | DNEL   | Long term Inhalation   | 0.4 mg/m <sup>3</sup>   | Workers  | Local                                     |
|  | DNEL   |  | 0.081 mg/m <sup>3</sup>   |  |   |
|  | DNEL   | Long term Inhalation<br>Short term Inhalation  | 0.081 mg/m <sup>3</sup>   | Workers  | Systemi<br>Local                          |
|  |  | Short term Inhalation  | 0.2 mg/m <sup>3</sup>   | Workers<br>Workers   | Systemi                                   |
|  |  |  |   |  |   |
|  | DNEL   |  | $10.05  ma/m^3$   | (Conoral nonulation  |   |
|  | DNEL   | Long term Inhalation   | $0.05 \text{ mg/m}^3$   | General population   | •   |
|  | DNEL<br>DNEL   | Long term Inhalation<br>Long term Oral   | 0.06 mg/kg bw/day   | General population   | System                                    |
|  | DNEL<br>DNEL<br>DNEL   | Long term Inhalation<br>Long term Oral<br>Long term Inhalation   | 0.06 mg/kg bw/day<br>0.08 mg/m³   | General population<br>General population   | Systemi<br>Local                          |
|  | DNEL<br>DNEL<br>DNEL<br>DNEL                                 | Long term Inhalation<br>Long term Oral<br>Long term Inhalation<br>Short term Oral  | 0.06 mg/kg bw/day<br>0.08 mg/m³<br>0.1 mg/kg bw/day   | General population<br>General population<br>General population                       | Systemi<br>Local<br>Systemi               |
|  | DNEL<br>DNEL<br>DNEL<br>DNEL<br>DNEL                         | Long term Inhalation<br>Long term Oral<br>Long term Inhalation<br>Short term Oral<br>Short term Dermal   | 0.06 mg/kg bw/day<br>0.08 mg/m <sup>3</sup><br>0.1 mg/kg bw/day<br>0.1 mg/kg bw/day   | General population<br>General population<br>General population<br>General population | Systemi<br>Local<br>Systemi<br>Systemi    |
|  | DNEL<br>DNEL<br>DNEL<br>DNEL                                 | Long term Inhalation<br>Long term Oral<br>Long term Inhalation<br>Short term Oral  | 0.06 mg/kg bw/day<br>0.08 mg/m³<br>0.1 mg/kg bw/day   | General population<br>General population<br>General population                       | Systemi<br>Local<br>Systemi               |

English (GB)

| Code    | : 40278-C7035/15L     | Date of issue/Date of revision | : 7 August 2023 |
|---------|-----------------------|--------------------------------|-----------------|
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Workers

Systemic

## **SECTION 8: Exposure controls/personal protection**

**PNECs** 

English (GB)

| DNEL | Long term Dermal | 0.2 mg/kg bw/day |
|------|------------------|------------------|
|      |                  |                  |

| Product/ingredient name   | Compartment Detail     | Value           | Method Detail            |
|---|------------------------|-----------------|--------------------------|
| reaction product: bisphenol-A-(epichlorhydrin);<br>epoxy resin (number average molecular<br>weight ≤ 700) | Fresh water            | 0.006 mg/l      | Assessment Factors       |
|   | Marine water           | 0.001 mg/l      | Assessment Factors       |
|   | Sewage Treatment Plant | 10 mg/l         | Assessment Factors       |
|   | Fresh water sediment   | 0.996 mg/kg dwt | Equilibrium Partitioning |
|   | Marine water sediment  | 0.1 mg/kg dwt   | Equilibrium Partitioning |
| xylene  | Fresh water            | 0.327 mg/l      | -                        |
|   | Marine water           | 0.327 mg/l      | -                        |
|   | Sewage Treatment Plant |                 | -                        |
|   | Fresh water sediment   | 12.46 mg/kg dwt | -                        |
|   | Marine water sediment  | 12.46 mg/kg dwt | -                        |
|   | Soil                   | 2.31 mg/kg      | -                        |
| 1-methoxy-2-propanol  | Fresh water            | 10 mg/l         | Assessment Factors       |
|   | Marine water           | 1 mg/l          | Assessment Factors       |
|   | Sewage Treatment Plant |                 | Assessment Factors       |
|   | Fresh water sediment   | 41.6 mg/kg      | Equilibrium Partitioning |
|   | Marine water sediment  | 4.17 mg/kg      | Equilibrium Partitioning |
|   | Soil                   | 2.47 mg/kg      | Equilibrium Partitioning |
| ethylbenzene  | Fresh water            | 0.1 mg/l        | Assessment Factors       |
|   | Marine water           | 0.01 mg/l       | Assessment Factors       |
|   | Sewage Treatment Plant |                 | Assessment Factors       |
|   | Fresh water sediment   | 13.7 mg/kg dwt  | Equilibrium Partitioning |
|   | Marine water sediment  | 1.37 mg/kg dwt  | Equilibrium Partitioning |
|   | Soil                   | 2.68 mg/kg dwt  | Equilibrium Partitioning |
|   | Secondary Poisoning    | 20 mg/kg        | -                        |
| trizinc bis(orthophosphate)   | Fresh water            | 20.6 µg/l       | Sensitivity Distribution |
|   | Marine water           | 6.1 µg/l        | Sensitivity Distribution |
|   | Sewage Treatment Plant |                 | Assessment Factors       |
|   | Fresh water sediment   | 117.8 mg/kg dwt | Sensitivity Distribution |
|   | Marine water sediment  | 56.5 mg/kg dwt  | Equilibrium Partitioning |
|   | Soil                   | 35.6 mg/kg dwt  | Sensitivity Distribution |
| maleic anhydride  | Fresh water            | 0.1 mg/l        | Assessment Factors       |
|   | Marine water           | 0.01 mg/l       | Assessment Factors       |
|   | Sewage Treatment Plant |                 | Assessment Factors       |
|   | Fresh water sediment   | 0.334 mg/kg dwt | Equilibrium Partitioning |
|   | Marine water sediment  | 0.033 mg/kg dwt | Equilibrium Partitioning |
|   | Soil                   | 0.042 mg/kg dwt | Equilibrium Partitioning |

| 8.2 Exposure controls               |     |   |
|-------------------------------------|-----|---|
| Appropriate engineering<br>controls | :   | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation<br>or other engineering controls to keep worker exposure to airborne contaminants below<br>any recommended or statutory limits. The engineering controls also need to keep gas,<br>vapour or dust concentrations below any lower explosive limits. Use explosion-proof<br>ventilation equipment.  |
| Individual protection measu         | res |   |
| Hygiene measures                    | :   | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location. |
| Eye/face protection                 | :   | Chemical splash goggles and face shield.  |
| Skin protection                     |     |   |
| Hand protection                     | :   |   |
|                                     |     |   |

United Kingdom (UK)

9/19

| Code     | : 40278-C7035/15L    | Date of issue/Date of revision | : 7 August 2023 |
|----------|----------------------|--------------------------------|-----------------|
| SIGMAFAS | ST 278 BASE RAL 7035 |                                |                 |

## **SECTION 8: Exposure controls/personal protection**

| •                               |  |
|---------------------------------|--|
|                                 | Chemical-resistant, impervious gloves complying with an approved standard should be<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary. Considering the parameters specified by the glove manufacturer, check<br>during use that the gloves are still retaining their protective properties. It should be<br>noted that the time to breakthrough for any glove material may be different for different<br>glove manufacturers. In the case of mixtures, consisting of several substances, the<br>protection time of the gloves cannot be accurately estimated. When prolonged or<br>frequently repeated contact may occur, a glove with a protection class of 6<br>(breakthrough time greater than 480 minutes according to EN 374) is recommended.<br>When only brief contact is expected, a glove with a protection class of 2 or higher<br>(breakthrough time greater than 30 minutes according to EN 374) is recommended.<br>The user must check that the final choice of type of glove selected for handling this<br>product is the most appropriate and takes into account the particular conditions of use,<br>as included in the user's risk assessment.<br>butyl rubber |
| 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.  |
| 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.  |
| Respiratory protection          | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3   |
| 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**

2

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   | l.             |                  |  |  |  |
| Colour                                       | : Grey.  |                |                  |  |  |  |
| Odour  | : Characteristic.  |                |                  |  |  |  |
| Odour threshold                              | : Not av   | vailable.      |                  |  |  |  |
| Melting point/freezing point                 | May start to solidify at the following temperature: -8°C (17.6°F) This is based on<br>data for the following ingredient: nonylphenol. Weighted average: -58.13°C (-72.6°F) |                |                  |  |  |  |
| Initial boiling point and<br>boiling range   | : >37.7  | 8°C (>100°F)   |                  |  |  |  |
| Flammability (solid, gas)                    | : liquid   |                |                  |  |  |  |
| Upper/lower flammability or explosive limits | : Great  | est known rang | ge: Lower: 1.48% | 6 Upper: 13.74% (1-methoxy-2-propanol) |  |  |
| Flash point                                  | : Close  | d cup: 26°C (7 | 8.8°F)           |  |  |  |
| Auto-ignition temperature                    | :  |                |                  |  |  |  |
| Ingredient name                              |  | °C             | °F               | Method                                 |  |  |
| 1-methoxy-2-propanol                         |  | 270            | 518              |  |  |  |
|  |  |                |                  |  |  |  |

#### Decomposition temperature

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| Code     | : 40278-C7035/15L   | Date of issue/Date of revision | : 7 August 2023 |
|----------|---------------------|--------------------------------|-----------------|
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## **SECTION 9: Physical and chemical properties**

| рН   | : Not                         | applicable                               |                       |                        |             |  |
|--|-------------------------------|--|-----------------------|------------------------|-------------|--|
|  | Not                           | applicable                               | . insoluble in water  | r.                     |             |  |
| Viscosity  | : Kinematic (40°C): >21 mm²/s |  |                       |                        |             |  |
| Solubility(ies)  | :                             |  |                       |                        |             |  |
| Media  | R                             | esult                                    |                       |                        |             |  |
| cold water   | No                            | ot soluble                               |                       |                        |             |  |
| Miscible with water  | : No.                         |  |                       |                        |             |  |
| Partition coefficient: n-oc<br>water   | tanol/ : Not                  | applicable                               |                       |                        |             |  |
| Vapour pressure  | :                             |  |                       |                        |             |  |
|  | Va                            | apour Pres                               | ssure at 20°C         | V                      | apour pres  | sure at 50°C                                   |
| Ingredient name  | mm Hg                         | kPa                                      | Method                | mm Hg                  | kPa         | Method   |
| ethylbenzene   | 9.3                           | 1.2                                      |                       |                        |             |  |
|  |                               |  |                       |                        |             |  |
| Relative density   | : 1.46                        |  |                       |                        |             |  |
| •  |                               |  | value: 7.59 (Air =    | = 1) (nonylpher        | nol). Weigh | ted average: 5.2 (Air                          |
| Vapour density   | : Higł<br>: The               | hest known<br>product its                |                       | e, but the forma       | , .         | ted average: 5.2 (Air<br>explosible mixture of |
| Relative density<br>Vapour density<br>Explosive properties<br>Oxidising properties<br>Particle characteristics | : Higł<br>: The<br>vap        | hest known<br>product its<br>our or dust | self is not explosive | e, but the forma<br>e. | , .         | •  |

### **SECTION 10: Stability and reactivity**

|  | , , , , , , , , , , , , , , , , , , ,  |
|--|--|
| 10.1 Reactivity                          | : No specific test data related to reactivity available for this product or its ingredients.   |
| 10.2 Chemical stability                  | : The product is stable.   |
| 10.3 Possibility of 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 phosphorus oxides halogenated compounds metal oxide/ oxides |

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Acute toxicity 
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 <th:40278-C7035/15L</th>
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 SIGMAFAST 278 BASE RAL 7035
 D

Date of issue/Date of revision

: 7 August 2023

## **SECTION 11: Toxicological information**

| Product/ingredient name   | Result                          | Species | Dose        | Exposure |
|---|---------------------------------|---------|-------------|----------|
| Feaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight ≤ 700) | LD50 Dermal                     | Rabbit  | >2 g/kg     | -        |
|   | LD50 Oral                       | Rat     | >2 g/kg     | -        |
| xylene  | LD50 Dermal                     | Rabbit  | 1.7 g/kg    | -        |
|   | LD50 Oral                       | Rat     | 4.3 g/kg    | -        |
| nonylphenol   | LD50 Dermal                     | Rabbit  | 2.14 g/kg   | -        |
|   | LD50 Oral                       | Rat     | 580 mg/kg   | -        |
| 1-methoxy-2-propanol  | LC50 Inhalation Vapour          | Rat     | >7000 ppm   | 6 hours  |
|   | LD50 Dermal                     | Rabbit  | 13 g/kg     | -        |
|   | LD50 Oral                       | Rat     | 5.2 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    | -        |
| oxirane, mono[<br>(C12-14-alkyloxy)methyl]<br>derivs.   | LD50 Oral                       | Rat     | 17100 mg/kg | -        |
| trizinc bis(orthophosphate)   | LC50 Inhalation Dusts and mists | Rat     | >5.7 mg/l   | 4 hours  |
|   | LD50 Oral                       | Rat     | >5000 mg/kg | -        |
| 1,3-bis[12-hydroxy-<br>octadecamide-N-methylene]<br>-benzene  | LC50 Inhalation Dusts and mists | Rat     | >5.08 mg/l  | 4 hours  |
| p-nonylphenol   | LD50 Oral                       | Rat     | 1620 mg/kg  | -        |
| maleic anhydride  | LD50 Dermal                     | Rabbit  | 2620 mg/kg  | -        |
|   | LD50 Oral                       | Rat     | 400 mg/kg   | -        |

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

| Product/ingredient name                        | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| GMAFAST 278 BASE RAL 7035                      | 8331.5           | 24120.1           | N/A                            | 140.3                             | N/A  |
| xylene   | 4300             | 1700              | N/A                            | 11                                | N/A  |
| nonylphenol                                    | 580              | 2140              | N/A                            | N/A                               | N/A  |
| 1-methoxy-2-propanol                           | 5200             | 13000             | N/A                            | N/A                               | N/A  |
| ethylbenzene                                   | 3500             | 17800             | N/A                            | 17.8                              | N/A  |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 17100            | N/A               | N/A                            | N/A                               | N/A  |
| p-nonylphenol                                  | 1620             | N/A               | N/A                            | N/A                               | N/A  |
| maleic anhydride                               | 400              | 2620              | N/A                            | N/A                               | N/A  |

### Irritation/Corrosion

| Product/ingredient name   | Result                        | Species             | Score | Exposure           | Observation |
|---|-------------------------------|---------------------|-------|--------------------|-------------|
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular<br>weight ≤ 700) | Eyes - Mild irritant          | Rabbit              | -     | 100 mg             | -           |
|   | Eyes - Moderate irritant      | Rabbit              | -     | -                  | -           |
|   | Skin - Moderate irritant      | Rabbit              | -     | -                  | -           |
|   | Skin - Moderate irritant      | Rabbit              | -     | 24 hours 500<br>UI | -           |
|   | Skin - Severe irritant        | Rabbit              | -     | 24 hours 2<br>mg   | -           |
| xylene  | Skin - Moderate irritant      | Rabbit              | -     | 24 hours 500<br>mg | -           |
| Conclusion/Summary  | Not available.                | •                   | •     | •                  |             |
| Skin  | : There are no data available | e on the mixture it | self. |                    |             |

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

| Code      | : 40278-C7035/15L | Date of issue/Date of revision | : 7 August 2023 |
|-----------|-------------------|--------------------------------|-----------------|
| SIGMAFAST | 278 BASE RAL 7035 |                                |                 |

### **SECTION 11: Toxicological information**

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

Eyes

- : There are no data available on the mixture itself.
- **Sensitisation**

| Product/ingredient name  | Route of exposure | Species                            | Result                     |
|--|-------------------|------------------------------------|----------------------------|
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular<br>weight ≤ 700)<br>oxirane, mono[<br>(C12-14-alkyloxy)methyl]<br>derivs. | skin<br>skin      | Mouse<br>Guinea pig                | Sensitising<br>Sensitising |
| Conclusion/Summary   |                   |                                    |                            |
| Skin   | : There are no da | ta available on the mixture itself | f.                         |
| Respiratory  | : There are no da | ta available on the mixture itself | f.                         |
| <u>Mutagenicity</u>  |                   |                                    |                            |
| Conclusion/Summary<br>Carcinogenicity  | : There are no da | ta available on the mixture itself | f.                         |

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

| Conclusion/Summary        | : There are no data available on the mixture itself. |
|---------------------------|--|
| Reproductive toxicity     |  |
| Conclusion/Summary        | : There are no data available on the mixture itself. |
| <u>Teratogenicity</u>     |  |
| <b>Conclusion/Summary</b> | :  |

#### There are no data available on the mixture itself.

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

| Product/ingredient name | Category   | Route of exposure | Target organs                   |
|-------------------------|------------|-------------------|---------------------------------|
| xylene                  | Category 3 | -                 | Respiratory tract<br>irritation |
| 1-methoxy-2-propanol    | Category 3 | -                 | Narcotic effects                |

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

| Product/ingredient name | Category   | Route of exposure | Target organs      |
|-------------------------|------------|-------------------|--------------------|
| ethylbenzene            | Category 2 |                   | hearing organs     |
| maleic anhydride        | Category 1 |                   | respiratory system |

#### **Aspiration hazard**

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

### Information on likely routes : Not available.

#### of exposure

| Potential acute health e | <u>ffects</u>  |
|--------------------------|--|
| Eye contact              | : Causes serious eye damage.   |
| Inhalation               | : No known significant effects or critical hazards.                                |
| Skin contact             | : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion                | : No known significant effects or critical hazards.                                |

| <b>~</b>                          |                            |                                      | · · · · · · · · · · · · · · · · · · · |  |
|-----------------------------------|----------------------------|--------------------------------------|---------------------------------------|--|
| Code : 40278<br>SIGMAFAST 278 BAS | 8-C7035/15L<br>SE RAL 7035 | Date of issue/Date of revision       | : 7 August 2023                       |  |
| SECTION 11: T                     | oxicological inf           | formation                            |                                       |  |
| Symptoms related to               | the physical, chemic       | al and toxicological characteristics |                                       |  |
| Eye contact                       | : Adverse s<br>pain        | ymptoms may include the following:   |                                       |  |

|                | watering<br>redness   |
|----------------|---|
| Inhalation :   | Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations   |
| Skin contact : | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| Ingestion :    | Adverse symptoms may include the following:<br>stomach pains<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations  |

| Delayed and immediate effec    | ts  | as well as chronic effects from short and long-term exposure  |
|--------------------------------|-----|---|
| <u>Short term exposure</u>     |     |   |
| 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  | ect | <u>S</u>  |
| Not available.                 |     |   |
| <b>Conclusion/Summary</b>      | :   | Not available.  |
| General                        | :   | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/<br>or dermatitis. Once sensitized, a severe allergic reaction may occur when<br>subsequently exposed to very low levels. |
| Carcinogenicity                | :   | No known significant effects or critical hazards.   |
| Mutagenicity                   | 1   | No known significant effects or critical hazards.   |
| Reproductive toxicity          | :   | Suspected of damaging fertility. Suspected of damaging the unborn child.  |

**Other information** 

: Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Code : 40278-C7035/15L SIGMAFAST 278 BASE RAL 7035 Date of issue/Date of revision

: 7 August 2023

## **SECTION 12: Ecological information**

| Product/ingredient name   | Result   | Species  | Exposure      |
|---|--|--|---------------|
| Feaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight ≤ 700) | Chronic NOEC 0.3 mg/l  | Daphnia  | 21 days       |
| nonylphenol   | Acute EC50 0.056 mg/l Fresh water                                  | Algae - Green algae -<br>Desmodesmus subspicatus                                   | 72 hours      |
|   | Chronic EC10 0.003 mg/l Fresh water                                | Algae - Green algae -<br>Desmodesmus subspicatus                                   | 72 hours      |
|   | Chronic NOEC 1 µg/l Fresh water                                    | Daphnia - Water flea - Daphnia<br>magna  | 21 days       |
| 1-methoxy-2-propanol  | Acute LC50 23300 mg/l  | Daphnia - Daphnia  | 48 hours      |
|   | Acute LC50 >4500 mg/l Fresh water                                  | Fish - Goldfish  | 96 hours      |
| ethylbenzene  | Acute EC50 1.8 mg/l Fresh water<br>Chronic NOEC 1 mg/l Fresh water | Daphnia<br>Daphnia - <i>Ceriodaphnia dubia</i>                                     | 48 hours<br>- |
| oxirane, mono[<br>(C12-14-alkyloxy)methyl]<br>derivs.   | LC50 >100 mg/l   | Fish - Trout   | 96 hours      |
| trizinc bis(orthophosphate)   | Acute LC50 0.112 mg/l  | Fish   | 96 hours      |
| · · · · /   | Chronic NOEC 0.026 mg/l  | Fish   | 30 days       |
| 1,3-bis[12-hydroxy-<br>octadecamide-N-methylene]-<br>benzene  | Acute LC50 >100 mg/l   | Fish   | 96 hours      |
| p-nonylphenol   | Acute EC50 134.1 µg/l Marine water                                 | Algae - Diatom -<br><i>Phaeodactylum tricornutum</i> -<br>Exponential growth phase | 72 hours      |
|   | Chronic EC10 73.8 µg/l Marine water                                | Algae - Diatom -<br><i>Phaeodactylum tricornutum</i> -<br>Exponential growth phase | 72 hours      |

Conclusion/Summary

: Not available.

#### 12.2 Persistence and degradability

| Product/ingredient name   | Test      | Result                   | Dose | Inoculum |
|---|-----------|--------------------------|------|----------|
| reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight ≤ 700) | OECD 301F | 5 % - 28 days            | -    | -        |
| ethylbenzene  | -         | 79 % - Readily - 10 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability   |
|---|-------------------|------------|--------------------|
| reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight ≤ 700) | -                 | -          | Not readily        |
| xylene<br>ethylbenzene  | -                 | -          | Readily<br>Readily |

### **12.3 Bioaccumulative potential**

| Code      | : 40278-C7035/15L | Date of issue/Date of revision | : 7 August 2023 |
|-----------|-------------------|--------------------------------|-----------------|
| SIGMAFAST | 278 BASE RAL 7035 |                                |                 |

## **SECTION 12: Ecological information**

| Product/ingredient name   | LogPow       | BCF         | Potential |
|---|--------------|-------------|-----------|
| Feaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average<br>molecular weight ≤ 700) | 2.64 to 3.78 | 31          | Low       |
| xylene  | 3.12         | 7.4 to 18.5 | Low       |
| nonylphenol   | 3.28         | 154.88      | Low       |
| 1-methoxy-2-propanol  | <1           | -           | Low       |
| ethylbenzene  | 3.6          | 79.43       | Low       |
| oxirane, mono[<br>(C12-14-alkyloxy)methyl]  | 3.77         | -           | Low       |
| derivs.   |              |             |           |
| p-nonylphenol   | 5.76         | 380.19      | Low       |
| maleic anhydride  | -2.78        | -           | Low       |

| 12.4 Mobility in soil |                  |
|-----------------------|------------------|
| Soil/water partition  | : Not available. |
| coefficient (Koc)     |                  |
| Mobility              | : Not available. |

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

### **SECTION 13: Disposal considerations**

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

#### **13.1 Waste treatment methods**

| Product                          |  |  |  |
|----------------------------------|--|--|--|
| Methods of disposal              | : The generation of waste should be avoided or minimised wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation<br>and any regional local authority requirements. Dispose of surplus and non-<br>recyclable products via a licensed waste disposal contractor. Waste should not be<br>disposed of untreated to the sewer unless fully compliant with the requirements of<br>all authorities with jurisdiction. |  |  |
| Hazardous waste                  | : Yes.   |  |  |
| Waste catalogue                  |  |  |  |
| Waste code                       | Waste designation  |  |  |
| 08 01 11*                        | waste paint and varnish containing organic solvents or other hazardous substances  |  |  |
|                                  |  |  |  |
| Packaging                        |  |  |  |
| Packaging<br>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.   |  |  |
|                                  | packaging should be recycled. Incineration or landfill should only be considered   |  |  |

| Code      | : 40278-C7035/15L | Date of issue/Date of revision | : 7 August 2023 |
|-----------|-------------------|--------------------------------|-----------------|
| SIGMAFAST | 278 BASE RAL 7035 |                                |                 |

### **SECTION 13: Disposal considerations**

```
Special precautions
```

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

### **SECTION 14: Transport information**

|                                    | ADR/RID                        | ADN                            | IMDG   | ΙΑΤΑ  |
|------------------------------------|--------------------------------|--------------------------------|--|---|
| 14.1 UN number                     | UN3470                         | UN3470                         | UN3470   | UN3470  |
| 14.2 UN proper shipping name       | PAINT, CORROSIVE,<br>FLAMMABLE | PAINT, CORROSIVE,<br>FLAMMABLE | PAINT, CORROSIVE,<br>FLAMMABLE   | PAINT, CORROSIVE,<br>FLAMMABLE  |
| 14.3 Transport<br>hazard class(es) | 8 (3)                          | 8 (3)                          | 8 (3)  | 8 (3)   |
| 14.4 Packing<br>group              | II                             | П                              | 11   | II  |
| 14.5<br>Environmental<br>hazards   | Yes.                           | Yes.                           | Yes.   | Yes. The<br>environmentally<br>hazardous substance<br>mark is not required. |
| Marine pollutant<br>substances     | Not applicable.                | Not applicable.                | (reaction product:<br>bisphenol-A-<br>(epichlorhydrin); epoxy<br>resin, nonylphenol) | Not applicable.   |

#### Additional information

| ADR/RID     | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
|-------------|--|
| Tunnel code | : (D/E)  |
| ADN         | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| IMDG        | : The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.        |
| ΙΑΤΑ        | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

# **14.6 Special precautions for user**: **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.

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

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u> <u>Annex XIV - List of substances subject to authorisation</u>
  - <u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

Code : 40278-C7035/15L SIGMAFAST 278 BASE RAL 7035 Date of issue/Date of revision

: 7 August 2023

### **SECTION 15: Regulatory information**

| Intrinsic property                                    | Ingredient name  | Status                 | Reference<br>number | Date of revision |
|---|--|------------------------|---------------------|------------------|
| Substance of<br>equivalent concern for<br>environment | 4-nonylphenol, branched and linear<br>substances with a linear and/or branched<br>alkyl chain with a carbon number of 9<br>covalently bound in position 4 to phenol,<br>covering also UVCB- and well-defined<br>substances which include any of the<br>individual isomers or a combination thereof<br>4-nonylphenol, branched and linear<br>substances with a linear and/or branched<br>alkyl chain with a carbon number of 9<br>covalently bound in position 4 to phenol,<br>covering also UVCB- and well-defined<br>substances which include any of the<br>individual isomers or a combination thereof | Candidate<br>Candidate | -                   | 12/19/2012       |

#### **Ozone depleting substances**

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

| Category  |
|-----------|
| P5c<br>E1 |
|           |

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and<br>acronyms | : ATE = Acute Toxicity Estimate<br>GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and<br>Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 |
|-------------------------------|--|
|                               | No. 720 and amendments   |
|                               | DMEL = Derived Minimal Effect Level  |
|                               | DNEL = Derived No Effect Level   |
|                               | EUH statement = GB CLP-specific Hazard statement   |
|                               | N/A = Not available  |
|                               | PBT = Persistent, Bioaccumulative and Toxic  |
|                               | PNEC = Predicted No Effect Concentration   |
|                               | RRN = REACH Registration Number  |
|                               | SGG = Segregation Group  |
|                               | vPvB = Very Persistent and Very Bioaccumulative  |

#### Procedure used to derive the classification

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Corr. 1B, H314     | Calculation method    |
| Eye Dam. 1, H318        | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Repr. 2, H361fd         | Calculation method    |
| Aquatic Acute 1, H400   | Calculation method    |
| Aquatic Chronic 1, H410 | Calculation method    |

English (GB)

| Code                        | : 40278-C7035/15L | Date of issue/Date of revision | : 7 August 2023 |
|-----------------------------|-------------------|--------------------------------|-----------------|
| SIGMAFAST 278 BASE RAL 7035 |                   |                                |                 |

### **SECTION 16: Other information**

#### Full text of abbreviated H statements

| H225   | Highly flammable liquid and vapour.  |
|--------|--|
| H226   | Flammable liquid and vapour.   |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                              |
| H312   | Harmful in contact with skin.  |
| H314   | Causes severe skin burns and eye damage.                                   |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H318   | Causes serious eye damage.   |
| H319   | Causes serious eye irritation.   |
| H332   | Harmful if inhaled.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.   |
| H361   | Suspected of damaging fertility or the unborn child.                       |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.   |
| H372   | Causes damage to organs through prolonged or repeated exposure.            |
| H373   | May cause damage to organs through prolonged or repeated exposure.         |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                      |
| 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.                    |
| EUH071 | Corrosive to the respiratory tract.  |

#### Full text of classifications

| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
|-------------------|---|
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 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                                  |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| Resp. Sens. 1     | RESPIRATORY SENSITISATION - Category 1                          |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| Skin Sens. 1A     | SKIN SENSITISATION - Category 1A                                |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                                |
| STOT RE 1         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |
| History           |   |

| History                         |                 |
|---------------------------------|-----------------|
| Date of issue/ Date of revision | : 7 August 2023 |
| Date of previous issue          | : 9 November 20 |
| Prepared by                     | : EHS           |
| Version                         | : 1.02          |

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2022