

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

| 1.1 Product identifier           |                     |
|----------------------------------|---------------------|
| Product name                     | : Barrier 65 Comp B |
| Product code                     | : 26940             |
| Product description              | : Hardener.         |
| Product type                     | : Liquid.           |
| Other means of<br>identification | : Not available.    |

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

#### 1.3 Details of the supplier of the safety data sheet

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#### 1.4 Emergency telephone number

#### **National Poison Information Center**

+90 224 442 82 93 Uludağ Üniversitesi Zehir Danışma Merkezi (www.uludag.edu.tr/uludag/zehir.html) a. ACİL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız. b. ACIL ILK YARDIM MERKEZI:112 c. İTFAİYE:110

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

#### 2.1 Classification of the substance or mixture

: Mixture

#### Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

**Product definition** 

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

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

## **SECTION 2: Hazards identification**

| Hazard pictograms   |  |
|---|--|
|   | $\forall \vee \vee$  |
| Signal word<br>Hazard statements  | <ul> <li>Danger.</li> <li>H226 - Flammable liquid and vapour.<br/>H315 - Causes skin irritation.<br/>H317 - May cause an allergic skin reaction.<br/>H318 - Causes serious eye damage.<br/>H335 - May cause respiratory irritation.<br/>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>   |
| Precautionary statements  |  |
| General   | : Not applicable.  |
| Prevention  | <ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>   |
| Response  | <ul> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.<br/>P362 + P364 - Take off contaminated clothing and wash it before reuse.<br/>P302 + P352 - IF ON SKIN: Wash with plenty of water.<br/>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br/>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several<br/>minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/>Immediately call a POISON CENTER or doctor.</li> </ul> |
| Storage   | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.   |
| Disposal  | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Hazardous ingredients   | : xylene<br>2,4,6-tris(dimethylaminomethyl)phenol<br>fatty acids, C18-unsatd., trimers, compds. with oleylamine<br>Fatty acids, tall-oil, compds. with oleylamine<br>3,6-diazaoctanethylenediamin, triethylenetetramine<br>ethylenediamine   |
| Supplemental label elements   | : Not applicable.  |
| Annex 17 - Restrictions on<br>the manufacture, placing<br>on the market and use of<br>certain dangerous<br>substances, mixtures and<br>articles | : Not applicable.  |
| Special packaging requirem  | <u>ents</u>  |
| Containers to be fitted<br>with child-resistant<br>fastenings   | : Not applicable.  |
| Tactile warning of danger   | : Not applicable.  |
| .3 Other hazards  |  |
| Product meets the criteria<br>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   | : None known.  |

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

|  |  | 0/        |   | _       |
|--|--|-----------|---|---------|
| Product/ingredient name  | Identifiers  | %         | SEA: RG10/12/2020-31330   | Туре    |
| xylene   | 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                            | [1] [2] |
| 1-methoxypropan-2-ol   | EC: 203-539-1<br>CAS: 107-98-2                           | ≤10       | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| ethylbenzene   | EC: 202-849-4<br>CAS: 100-41-4<br>Index:<br>601-023-00-4 | <10       | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412  | [1] [2] |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol                        | EC: 202-013-9<br>CAS: 90-72-2                            | <5        | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318   | [1]     |
| Solvent naphtha (petroleum),<br>light arom.                      | EC: 265-199-0<br>CAS: 64742-95-6                         | ≤3        | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411  | [1]     |
| fatty acids, C18-unsatd.,<br>trimers, compds. with<br>oleylamine | CAS: 147900-93-4   | ≤3        | Acute Tox. 4, H302<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Chronic 2, H411  | [1]     |
| butan-1-ol   | EC: 200-751-6<br>CAS: 71-36-3<br>Index:<br>603-004-00-6  | ≤2.4      | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336   | [1] [2] |
| Fatty acids, tall-oil, compds.<br>with oleylamine                | CAS: 85711-55-3  | ≤3        | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT RE 2, H373   | [1]     |
| 3,6-diazaoctanethylenediamin,<br>triethylenetetramine            | EC: 203-950-6<br>CAS: 112-24-3                           | <1        | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412  | [1]     |
| ethylenediamine  | EC: 203-468-6<br>CAS: 107-15-3<br>Index:<br>612-006-00-6 | ≤0.3      | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 3, H331<br>Skin Corr. 1B, H314<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | [1] [2] |

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

| • | 5  |  |
|---|--|--|
|   | See Section 16 for the full text of the H statements declared above. |  |
|   |  |  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### SECTION 4: First aid measures

| 4.1 Description of first aid m | asures  |
|--------------------------------|---|
| Eye contact                    | : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.  |
| Inhalation                     | : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact                   | : Get medical attention immediately. Call a poison center or physician. Wash with<br>plenty of soap and water. Remove contaminated clothing and shoes. Wash<br>contaminated clothing thoroughly with water before removing it, or wear gloves.<br>Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly<br>by a physician. In the event of any complaints or symptoms, avoid further exposure.<br>Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| Ingestion                      | : Get medical attention immediately. Call a poison center or physician. Wash out<br>mouth with water. Remove dentures if any. If material has been swallowed and the<br>exposed person is conscious, give small quantities of water to drink. Stop if the<br>exposed person feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the head should<br>be kept low so that vomit does not enter the lungs. Chemical burns must be treated<br>promptly by a physician. Never give anything by mouth to an unconscious person.<br>If unconscious, place in recovery position and get medical attention immediately.<br>Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or<br>waistband.  |
| 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 effects |  |
|--------------------------------|--|
| Eye contact :                  | Causes serious eye damage.                                   |
| Inhalation :                   | May cause respiratory irritation.                            |
| Skin contact :                 | Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion :                    | No known significant effects or critical hazards.            |
| Over-exposure signs/symptor    | <u>ns</u>  |

| Eye contact  | : Adverse symptoms may include the following:<br>pain<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>pain or irritation<br>redness<br>blistering may occur |
| Ingestion    | : Adverse symptoms may include the following:<br>stomach pains   |

|                    | <br> |  |
|--------------------|------|--|
| Notes to physician | :    | In case of inhalation of decomposition products in a fire, sympton |
|                    |      |  |

- The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** : No specific treatment.
  - **SECTION 5: Firefighting measures**

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

#### 5.2 Special hazards arising from the substance or mixture

| Hazards from the substance or mixture             | : | 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 harmful to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
|---|---|--|
| Hazardous thermal decomposition products          | : | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides  |
| 5.3 Advice for firefighters                       |   |  |
| Special protective actions for fire-fighters      | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |
| Special protective<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.<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. |
|--------------------------------|---|
|                                | inadequate. Fut on appropriate personal protective equipment.   |

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

| 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.  |
| 6.3 Methods and material for    | co | ntainment and cleaning up  |
| Small spill                     | :  | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill                     | :  | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |
| 6.4 Reference to other sections | :  | See Section 1 for emergency contact information.<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. 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 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.

See Technical Data Sheet / packaging for further information.

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

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

|--|

| Category | Notification and MAPP | Safety report threshold |   |
|----------|-----------------------|-------------------------|---|
|          | threshold             |                         | I |
| P5c      | 5000 tonne            | 50000 tonne             |   |

#### 7.3 Specific end use(s)

Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| xylene                  | <b>TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed isomers)] Absorbed through skin.</b><br>TWA: 221 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.<br>STEL: 442 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes. |
| 1-methoxypropan-2-ol    | <b>TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin.</b><br>TWA: 375 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.<br>STEL: 568 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.                                  |
| ethylbenzene            | <b>TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin.</b><br>TWA: 442 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.<br>STEL: 884 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.                                  |
| butan-1-ol              | ACGIH TLV (United States, 1/2023).   |
| ethylenediamine         | TWA: 20 ppm 8 hours.<br><b>ACGIH TLV (United States, 1/2023). Absorbed through skin.</b><br>TWA: 10 ppm 8 hours.   |

#### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

| Product/ingredient name                   | Туре     | Exposure                       | Value                       | Population            | Effects  |
|---|----------|--------------------------------|-----------------------------|-----------------------|----------|
| xylene                                    | DNEL     | Long term Oral                 | 12.5 mg/                    | General               | Systemic |
|   | DNEL     | Long term                      | kg bw/day<br>65.3 mg/m³     | population<br>General | Local    |
|   |          | Inhalation                     | Ū                           | population            |          |
|   | DNEL     | Long term                      | 65.3 mg/m <sup>3</sup>      | General               | Systemic |
|   | DNEL     | Inhalation<br>Long term Dermal | 125 mg/kg                   | population<br>General | Systemic |
|   | DINLL    | Long term Derma                | bw/day                      | population            | Systemic |
|   | DNEL     | Long term Dermal               | 212 mg/kg<br>bw/day         | Workers               | Systemic |
|   | DNEL     | Long term<br>Inhalation        | 221 mg/m <sup>3</sup>       | Workers               | Local    |
|   | DNEL     | Long term<br>Inhalation        | 221 mg/m <sup>3</sup>       | Workers               | Systemic |
|   | DNEL     | Short term<br>Inhalation       | 260 mg/m <sup>3</sup>       | General<br>population | Local    |
|   | DNEL     | Short term                     | 260 mg/m <sup>3</sup>       | General               | Systemic |
|   | <b>D</b> | Inhalation                     | 440 1 2                     | population            |          |
|   | DNEL     | Short term<br>Inhalation       | 442 mg/m <sup>3</sup>       | Workers               | Local    |
|   | DNEL     | Short term                     | 442 mg/m³                   | Workers               | Systemic |
| 1-methoxypropan-2-ol                      | DNEL     | Inhalation<br>Long term Oral   | 33 mg/kg                    | General               | Systemic |
|   |          |                                | bw/day                      | population            | - ,      |
|   | DNEL     | Long term                      | 43.9 mg/m <sup>3</sup>      | General               | Systemic |
|   | DNEL     | Inhalation                     | 78 ma/ka                    | population<br>General | Systemic |
|   | DINEL    | Long term Dermal               | 78 mg/kg<br>bw/day          | General<br>population | Systemic |
|   | DNEL     | Long term Dermal               | 183 mg/kg<br>bw/day         | Workers               | Systemic |
|   | DNEL     | Long term<br>Inhalation        | 369 mg/m <sup>3</sup>       | Workers               | Systemic |
|   | DNEL     | Short term<br>Inhalation       | 553.5 mg/<br>m³             | Workers               | Local    |
|   | DNEL     | Short term<br>Inhalation       | 553.5 mg/<br>m <sup>3</sup> | Workers               | Systemic |
| ethylbenzene                              | DMEL     | Long term<br>Inhalation        | 442 mg/m <sup>3</sup>       | Workers               | Local    |
|   | DMEL     | Short term<br>Inhalation       | 884 mg/m³                   | Workers               | Systemic |
|   | DNEL     | Long term Oral                 | 1.6 mg/kg<br>bw/day         | General<br>population | Systemic |
|   | DNEL     | Long term                      | 15 mg/m <sup>3</sup>        | General               | Systemic |
|   |          | Inhalation                     | 77                          | population            | Ou sta   |
|   | DNEL     | Long term<br>Inhalation        | 77 mg/m³                    | Workers               | Systemic |
|   | DNEL     | Long term Dermal               | 180 mg/kg<br>bw/day         | Workers               | Systemic |
|   | DNEL     | Short term<br>Inhalation       | 293 mg/m <sup>3</sup>       | Workers               | Local    |
| 2,4,6-tris(dimethylaminomethyl)<br>ohenol | DMEL     | Long term Dermal               | 0.2 mg/kg<br>bw/day         | Workers               | Systemic |
|   | DNEL     | Long term<br>Inhalation        | 0.31 mg/m <sup>3</sup>      | Workers               | Systemic |
|   | DNEL     | Long term Oral                 | 0.075 mg/<br>kg bw/day      | General<br>population | Systemic |
|   | DNEL     | Short term Dermal              | 0.075 mg/<br>kg bw/day      | General population    | Systemic |
|   | DNEL     | Long term Dermal               | 0.075 mg/<br>kg bw/day      | General<br>population | Systemic |
|   | DNEL     | Short term<br>Inhalation       | 0.13 mg/m <sup>3</sup>      | General population    | Systemic |
|   | DNEL     | Long term                      | 0.13 mg/m <sup>3</sup>      |                       | Systemic |

#### SECTION 8: Exp controle/norconal protoction ----

|   |      | Inhalation               |                              | population  |          |
|---|------|--------------------------|------------------------------|---|----------|
|   | DNEL | Long term Dermal         | 0.15 mg/                     | Workers   | Systemic |
|   | DNEL | Long term<br>Inhalation  | kg bw/day<br>0.53 mg/m³      | Workers   | Systemic |
|   | DNEL | Short term Dermal        | 0.6 mg/kg<br>bw/day          | Workers   | Systemic |
|   | DNEL | Short term<br>Inhalation | 2.1 mg/m <sup>3</sup>        | Workers   | Systemic |
| Solvent naphtha (petroleum), light arom.              | DNEL | Long term Dermal         | 12.5 mg/<br>kg bw/day        | Workers   | Systemic |
|   | DNEL | Long term<br>Inhalation  | 151 mg/m <sup>3</sup>        | Workers   | Systemic |
|   | DNEL | Long term Dermal         | 7.5 mg/kg<br>bw/day          | General<br>population                               | Systemic |
|   | DNEL | Long term<br>Inhalation  | 32 mg/m³                     | [Consumers]<br>General<br>population                | Systemic |
|   | DNEL | Long term Oral           | 7.5 mg/kg<br>bw/day          | [Consumers]<br>General<br>population                | Systemic |
| butan-1-ol  | DNEL | Long term Oral           | 1.5625 mg/<br>kg bw/day      | [Consumers]<br>General<br>population                | Systemic |
|   | DNEL | Long term Dermal         | 3.125 mg/<br>kg bw/day       | General<br>population                               | Systemic |
|   | DNEL | Long term<br>Inhalation  | 55.357 mg/<br>m <sup>3</sup> | General population                                  | Systemic |
|   | DNEL | Long term<br>Inhalation  | 155 mg/m³                    | General population                                  | Local    |
|   | DNEL | Long term<br>Inhalation  | 310 mg/m <sup>3</sup>        | Workers   | Local    |
| Fatty acids, tall-oil, compds. with<br>oleylamine     | DNEL | Long term Oral           | 0.012 mg/<br>kg bw/day       | General population                                  | Systemic |
|   | DNEL | Long term Dermal         | 0.012 mg/<br>kg bw/day       | General population                                  | Systemic |
|   | DNEL | Long term Dermal         | 0.024 mg/<br>kg bw/day       | Workers   | Systemic |
| 3,6-diazaoctanethylenediamin,<br>triethylenetetramine | DNEL | Short term<br>Inhalation | 5380 mg/<br>m <sup>3</sup>   | Workers   | Systemic |
|   | DNEL | Long term Dermal         | 0.57 mg/<br>kg bw/day        | Workers   | Systemic |
|   | DNEL | Long term<br>Inhalation  | 1 mg/m³                      | Workers   | Systemic |
|   | DNEL | Long term Dermal         | 0.028 mg/<br>cm <sup>2</sup> | Workers   | Local    |
|   | DNEL | Short term Dermal        | 8 mg/kg<br>bw/day            | General<br>population<br>[Consumers]                | Systemic |
|   | DNEL | Short term<br>Inhalation | 1600 mg/<br>m³               | General population                                  | Systemic |
|   | DNEL | Short term Oral          | 20 mg/kg<br>bw/day           | [Consumers]<br>General<br>population                | Systemic |
|   | DNEL | Short term Dermal        | 1 mg/cm²                     | [Consumers]<br>General<br>population                | Local    |
|   | DNEL | Long term Dermal         | 0.25 mg/<br>kg bw/day        | [Consumers]<br>General<br>population                | Systemic |
|   | DNEL | Long term<br>Inhalation  | 0.29 mg/m <sup>3</sup>       | [Consumers]<br>General<br>population<br>[Consumers] | Systemic |

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

| •               | · · · · · · · | -                |                        |             |          |
|-----------------|---------------|------------------|------------------------|-------------|----------|
|                 | DNEL          | Long term Oral   | 0.41 mg/               | General     | Systemic |
|                 |               |                  | kg bw/day              | population  |          |
|                 |               |                  |                        | [Consumers] |          |
|                 | DNEL          | Long term Dermal | 0.43 mg/               | General     | Local    |
|                 |               |                  | Cm <sup>2</sup>        | population  |          |
|                 |               |                  |                        | [Consumers] |          |
| ethylenediamine | DNEL          | Long term Oral   | 0.11 mg/               | General     | Systemic |
| -               |               | <b>U</b>         | kg bw/day              | population  |          |
|                 | DNEL          | Long term        | 6.25 mg/m <sup>3</sup> | General     | Systemic |
|                 |               | Inhalation       | 5                      | population  | ,        |
|                 | DNEL          | Long term        | 25 mg/m <sup>3</sup>   | Workers     | Systemic |
|                 |               | Inhalation       | g/m                    |             | - ,      |

#### **PNECs**

| Product/ingredient name               | Compartment Detail    | Value                                    | Method Detail |
|---------------------------------------|-----------------------|--|---------------|
| xylene                                | Fresh water           | 0.327 mg/l                               | -             |
|                                       | Marine                | 0.327 mg/l                               | -             |
|                                       | Sewage Treatment      | 6.58 mg/l                                | -             |
|                                       | Plant                 |  |               |
|                                       | Fresh water sediment  | 12.46 mg/kg dwt                          | -             |
|                                       | Marine water sediment | 12.46 mg/kg dwt                          | -             |
|                                       | Soil                  | 2.31 mg/kg dwt                           | -             |
| 1-methoxypropan-2-ol                  | Fresh water           | 10 mg/l                                  | -             |
|                                       | Marine                | 1 mg/l                                   | -             |
|                                       | Sewage Treatment      | 100 mg/l                                 | -             |
|                                       | Plant                 |  |               |
|                                       | Fresh water sediment  | 52.3 mg/kg dwt                           | -             |
|                                       | Marine water sediment | 5.2 mg/kg dwt                            | -             |
|                                       | Soil                  | 5.49 mg/kg dwt                           | -             |
| ethylbenzene                          | Fresh water           | 0.1 mg/l                                 | -             |
|                                       | Marine                | 0.01 mg/l                                | -             |
|                                       | Sewage Treatment      | 9.6 mg/l                                 | -             |
|                                       | Plant                 |  |               |
|                                       | Fresh water sediment  | 13.7 mg/kg dwt                           | -             |
|                                       | Soil                  | 2.68 mg/kg dwt                           | -             |
|                                       | Secondary Poisoning   | 20 mg/kg                                 | -             |
| 2,4,6-tris(dimethylaminomethyl)phenol | Fresh water           | 0.084 mg/l                               | -             |
|                                       | Marine                | 0.0084 mg/l                              | -             |
|                                       | Sewage Treatment      | 0.2 mg/l                                 | -             |
|                                       | Plant                 | J. J. J. J. J. J. J. J. J. J. J. J. J. J |               |
| butan-1-ol                            | Fresh water           | 0.082 mg/l                               | -             |
|                                       | Marine                | 0.0082 mg/l                              | -             |
|                                       | Sewage Treatment      | 2476 mg/l                                | -             |
|                                       | Plant                 | Ŭ  |               |
|                                       | Fresh water sediment  | 0.178 mg/kg dwt                          | -             |
|                                       | Marine water sediment | 0.0178 mg/kg dwt                         | -             |
|                                       | Soil                  | 0.015 mg/kg dwt                          | -             |
| 3,6-diazaoctanethylenediamin,         | Fresh water           | 190 µg/l                                 | -             |
| triethylenetetramine                  |                       |  |               |
| 5                                     | Marine                | 38 µg/l                                  | -             |
|                                       | Sewage Treatment      | 4.25 mg/l                                | -             |
|                                       | Plant                 | - <b>J</b>                               |               |
|                                       | Fresh water sediment  | 95.9 mg/kg dwt                           | -             |
|                                       | Marine water sediment | 19.2 mg/kg dwt                           | -             |
|                                       | Soil                  | 19.1 mg/kg dwt                           | -             |
|                                       | Secondary Poisoning   | 0.18 mg/kg                               | -             |

#### 8.2 Exposure controls

| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne |
|----------------------------------|---|
| controls                         | 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.  |

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

|                                 | • •   |
|---------------------------------|---|
| Individual protection measu     | <u>ires</u>   |
| Hygiene measures                | : Wash hands, forearms and face thoroughly after handling chemical products,<br>before 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             | : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.  |
| Skin protection                 |   |
| Hand protection                 | <ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.<br/>The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.<br/>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> <li>Wear suitable gloves tested to ISO 374-1:2016.</li> <li>May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (&gt; 0.35 mm), butyl rubber (&gt; 0.4 mm), Viton® (&gt; 0.7 mm)</li> <li>Not recommended, gloves(breakthrough time) &lt; 1 hour: PVC (&gt; 0.5 mm)</li> <li>Recommended, gloves(breakthrough time) &gt; 8 hours: 4H/Silver Shield® (&gt; 0.07 mm), Teflon (&gt; 0.35 mm), nitrile rubber (&gt; 0.75 mm), polyvinyl alcohol (PVA) (&gt; 0.3 mm)</li> </ul> |
|                                 | For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.<br>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.  |
| Body protection                 | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves. Refer to<br>European Standard EN 1149 for further information on material and design<br>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.   |
| Respiratory protection          | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to<br>ensure they comply with the requirements of environmental protection legislation.<br>In some cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |

### **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

| Ap | pea | ran | <u>ce</u> |
|----|-----|-----|-----------|

| Physical state                                  | Liquid.   |  |
|---|---|--|
| Colour  | Brown.  |  |
| Odour   | Characteristic.   |  |
| Odour threshold                                 | Not applicable.   |  |
| Melting point/freezing point                    | Not applicable.   |  |
| Initial boiling point and<br>boiling range      | Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average:<br>134.43°C (274°F) |  |
| Flammability (solid, gas)                       | Not applicable.   |  |
| Upper/lower flammability or<br>explosive limits | 0.8 - 13.74%  |  |
| Flash point                                     | Closed cup: 24°C (75.2°F)   |  |
| Auto-ignition temperature                       | Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).                               |  |
| Decomposition temperature                       | Not available.  |  |
| рН  | Not applicable.   |  |
| Viscosity                                       | Kinematic (40°C): >20.5 mm²/s   |  |
| Solubility(ies)                                 |   |  |
| Media   | Result  |  |

|   | hot water                         |     | Not soluble    |  |
|---|-----------------------------------|-----|----------------|--|
| Р | Partition coefficient: n-octanol/ | : 1 | Not available. |  |

Not soluble

#### water

cold water

| Water                    |  |
|--------------------------|--|
| Vapour pressure          | <ul> <li>Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted<br/>average: 0.81 kPa (6.08 mm Hg) (at 20°C)</li> </ul> |
|                          | Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with butyl acetate   |
| Density                  | : 0.94 g/cm <sup>3</sup>   |
| Vapour density           | : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.52 (Air = 1)  |
| Explosive properties     | : Not available.   |
| Oxidising properties     | : Not available.   |
| Particle characteristics |  |
| Median particle size     | : Not applicable.  |
|                          |  |

#### 9.2 Other information

No additional information.

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

| 10.1 Reactivity                            | : N  | o specific  | te                   | st data relate         | d to reac  | tivity available | for this produ | uct or its | ingredi | ents. |
|--|------|---|----------------------|------------------------|------------|------------------|----------------|------------|---------|-------|
| 10.2 Chemical stability                    | : Tł | ne produc   | e product is stable. |                        |            |                  |                |            |         |       |
| 10.3 Possibility of<br>hazardous reactions | : U  | nder normal conditions of storage and use, hazardous reactions will not occur.  |                      |                        |            |                  |                |            |         |       |
| 10.4 Conditions to avoid                   |      | Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |                      |                        |            |                  |                |            |         |       |
| 10.5 Incompatible materials                |      | Reactive or incompatible with the following materials:<br>oxidising materials   |                      |                        |            |                  |                |            |         |       |
| 10.6 Hazardous<br>decomposition products   |      |   |                      | conditions o produced. | f storage  | and use, haza    | ardous decom   | nposition  | produc  | cts   |
| Date of revision                           | :    | 29.11.2023  |                      | Original prepar        | ation date | : 29.11.202      | 3              | Version    | :1      | 12/20 |

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

#### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                            | Result                 | Species    | Dose        | Exposure |
|--|------------------------|------------|-------------|----------|
| xylene   | LC50 Inhalation Vapour | Rat        | 20 mg/l     | 4 hours  |
|  | LD50 Oral              | Rat        | 4300 mg/kg  | -        |
|  | TDLo Dermal            | Rabbit     | 4300 mg/kg  | -        |
| 1-methoxypropan-2-ol                               | LD50 Dermal            | Rabbit     | 13 g/kg     | -        |
|  | LD50 Oral              | Rat        | 6600 mg/kg  | -        |
| ethylbenzene                                       | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l   | 4 hours  |
|  | LD50 Dermal            | Rabbit     | >5000 mg/kg | -        |
|  | LD50 Oral              | Rat        | 3500 mg/kg  | -        |
| 2,4,6-tris   | LD50 Oral              | Rat        | 1673 mg/kg  | -        |
| (dimethylaminomethyl)<br>phenol                    |                        |            |             |          |
| butan-1-ol   | LD50 Oral              | Rat        | 790 mg/kg   | -        |
| 3,6-diazaoctanethylenediamin, triethylenetetramine | LD50 Oral              | Mouse      | 1600 mg/kg  | -        |
|  | LD50 Oral              | Mouse      | 38.5 mg/kg  | -        |
| ethylenediamine                                    | LC50 Inhalation Vapour | Rat        | 7 mg/l      | 4 hours  |
|  | LD50 Dermal            | Rabbit     | 730 uL/kg   | -        |
|  | LD50 Oral              | Rat        | 1200 mg/kg  | -        |

Conclusion/Summary : N

: Not available.

#### 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) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Barrier 65 Comp B  | 10381.6          | 4969.2            | N/A                            | 64.6                              | N/A  |
| xylene   | 4300             | 1100              | N/A                            | 20                                | N/A  |
| 1-methoxy-2-propanol                                       | 6600             | 13000             | N/A                            | N/A                               | N/A  |
| ethylbenzene   | 3500             | N/A               | N/A                            | 17.8                              | N/A  |
| 2,4,6-tris(dimethylaminomethyl)phenol                      | 1673             | N/A               | N/A                            | N/A                               | N/A  |
| fatty acids, C18-unsatd., trimers, compds. with oleylamine | 500              | N/A               | N/A                            | N/A                               | N/A  |
| butan-1-ol   | 500              | N/A               | N/A                            | N/A                               | N/A  |
| 3,6-diazaoctanethylenediamin                               | 500              | 1100              | N/A                            | N/A                               | N/A  |
| ethylenediamine  | 500              | 1100              | N/A                            | 7                                 | N/A  |

#### Irritation/Corrosion

| Product/ingredient name                               | Result                   | Species                            | Score | Exposure                  | Observation |
|---|--------------------------|------------------------------------|-------|---------------------------|-------------|
| xylene  | Eyes - Mild irritant     | Rabbit                             | -     | 87 milligrams             | -           |
|   | Skin - Mild irritant     | Rat                                | -     | 8 hours 60<br>microliters | -           |
| 1-methoxypropan-2-ol                                  | Eyes - Mild irritant     | Rabbit                             | -     | 24 hours 500<br>mg        | -           |
|   | Skin - Mild irritant     | Rabbit                             | -     | 500 mg                    | -           |
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol         | Eyes - Severe irritant   | Rabbit                             | -     | 24 hours 50<br>µg         | -           |
|   | Skin - Severe irritant   | Rat                                | -     | 0.25 ml                   | -           |
| Fatty acids, tall-oil, compds.<br>with oleylamine     | Eyes - Irritant          | Mammal -<br>species<br>unspecified | -     | -                         | -           |
| 3,6-diazaoctanethylenediamin,<br>triethylenetetramine | Eyes - Moderate irritant | Rabbit                             | -     | 24 hours 20<br>milligrams | -           |
| -   | Eyes - Severe irritant   | Rabbit                             | -     | 49 milligrams             | -           |
|   | Skin - Severe irritant   | Rabbit                             | -     | 490<br>milligrams         | -           |
|   | Skin - Severe irritant   | Rabbit                             | -     | 24 hours 5                | -           |

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

|                 | •                        |        |   |                            |   |
|-----------------|--------------------------|--------|---|----------------------------|---|
| ethylenediamine | Eyes - Severe irritant   | Rabbit |   | milligrams<br>24 hours 750 | - |
|                 | Eyes - Severe irritant   | Rabbit | - | ug<br>750 ug               | - |
|                 | Skin - Moderate irritant | Rabbit | - | 450 mg                     | - |
|                 | Skin - Severe irritant   | Rabbit | - | 24 hours 10                | - |
|                 |                          |        |   | mg                         |   |

Conclusion/Summary :

: Not available.

#### **Sensitisation**

| Product/ingredient name  | Route of exposure | Species                         | Result      |
|--|-------------------|---------------------------------|-------------|
| fatty acids, C18-unsatd.,<br>trimers, compds. with<br>oleylamine | skin              | Mammal - species<br>unspecified | Sensitising |
| Fatty acids, tall-oil, compds.<br>with oleylamine                | skin              | Mammal - species<br>unspecified | Sensitising |
| 3,6-diazaoctanethylenediamin, triethylenetetramine               | skin              | Mammal - species<br>unspecified | Sensitising |
| ethylenediamine  | skin              | Mammal - species<br>unspecified | Sensitising |

| Conclusion/Summary     | : Not available. |
|------------------------|------------------|
| Mutagenicity           |                  |
| Conclusion/Summary     | : Not available. |
| <b>Carcinogenicity</b> |                  |
| Conclusion/Summary     | : Not available. |
| Reproductive toxicity  |                  |
| Conclusion/Summary     | : Not available. |
| Teratogenicity         |                  |
| Conclusion/Summary     | : Not available. |
|                        |                  |

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

| Product/ingredient name                  | Category   | Route of exposure | Target organs                   |
|--|------------|-------------------|---------------------------------|
| xylene                                   | Category 3 | -                 | Respiratory tract<br>irritation |
| 1-methoxypropan-2-ol                     | Category 3 | -                 | Narcotic effects                |
| Solvent naphtha (petroleum), light arom. | Category 3 | -                 | Respiratory tract<br>irritation |
|  | Category 3 |                   | Narcotic effects                |
| butan-1-ol                               | Category 3 | -                 | Respiratory tract<br>irritation |
|  | Category 3 |                   | Narcotic effects                |

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

| Product/ingredient name                        | Category   | Route of exposure | Target organs  |
|--|------------|-------------------|----------------|
| ethylbenzene                                   | Category 2 | -                 | hearing organs |
|  | Category 2 | -                 | -              |
| Fatty acids, tall-oil, compds. with oleylamine | Category 2 | -                 | -              |

Aspiration hazard

| Product/ingredient name                  | Result                         |
|--|--------------------------------|
| xylene                                   | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                             | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light arom. | ASPIRATION HAZARD - Category 1 |

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

| Information on likely routes<br>of exposure | 1 | Not available.   |
|---|---|--|
| Potential acute health effects              |   |  |
| Eye contact                                 | : | Causes serious eye damage.                                   |
| Inhalation                                  | : | May cause respiratory irritation.                            |
| Skin contact                                | : | Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion                                   | : | No known significant effects or critical hazards.            |
|   |   |  |

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact  | : Adverse symptoms may include the following:<br>pain<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>pain or irritation<br>redness<br>blistering may occur |
| Ingestion    | : Adverse symptoms may include the following:<br>stomach pains   |

#### Delayed and immediate effects 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 eff   | <u>zts</u>  |    |
| Not available.                 |   |    |
| Conclusion/Summary             | : Not available.  |    |
| General                        | : Once sensitized, a severe allergic reaction may occur when subsequently expos to very low levels. | ed |
| 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.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **SECTION 12: Ecological information**

| Product/ingredient name                            | Result   | Species   | Exposure            |
|--|--|---|---------------------|
| xylene   | Acute LC50 8500 µg/l Marine water                                      | Crustaceans - Palaemonetes pugio                      | 48 hours            |
|  | Acute LC50 13400 µg/l Fresh water                                      | Fish - Pimephales promelas                            | 96 hours            |
| ethylbenzene                                       | Acute EC50 7700 µg/l Marine water                                      | Algae - Skeletonema costatum                          | 96 hours            |
| -  | Acute EC50 2.93 mg/l   | Daphnia   | 48 hours            |
|  | Acute LC50 4.2 mg/l  | Fish  | 96 hours            |
| Solvent naphtha (petroleum), light arom.           | Acute EC50 <10 mg/l  | Daphnia   | 48 hours            |
| 5  | Acute IC50 <10 mg/l  | Algae   | 72 hours            |
|  | Acute LC50 <10 mg/l  | Fish  | 96 hours            |
| 3,6-diazaoctanethylenediamin, triethylenetetramine | Acute LC50 33900 µg/l Fresh water                                      | Daphnia - Daphnia magna                               | 48 hours            |
| ethylenediamine                                    | Acute EC50 100000 µg/l Fresh water                                     | Algae - Chlorella pyrenoidosa                         | 96 hours            |
|  | Acute LC50 115.7 mg/l Fresh water<br>Chronic NOEC 160 μg/l Fresh water | Fish - Pimephales promelas<br>Daphnia - Daphnia magna | 96 hours<br>21 days |
| Conclusion/Summary                                 | : This material is harmful to aquatic life                             | with long lasting effects.                            |                     |

#### 12.2 Persistence and degradability

| Conclusion/Summary : Not available.  |                   |            |  |  |  |
|--|-------------------|------------|--|--|--|
| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability                                 |  |  |
| xylene<br>ethylbenzene<br>Solvent naphtha (petroleum),<br>light arom.<br>3,6-diazaoctanethylenediamin,<br>triethylenetetramine |                   | -          | Readily<br>Readily<br>Not readily<br>Not readily |  |  |

#### **12.3 Bioaccumulative potential**

| Product/ingredient name       | LogPow        | BCF         | Potential |  |
|-------------------------------|---------------|-------------|-----------|--|
| xylene                        | 3.12          | 8.1 to 25.9 | low       |  |
| 1-methoxypropan-2-ol          | <1            | -           | low       |  |
| ethylbenzene                  | 3.6           | -           | low       |  |
| 2,4,6-tris                    | 0.219         | -           | low       |  |
| (dimethylaminomethyl)         |               |             |           |  |
| phenol                        |               |             |           |  |
| Solvent naphtha (petroleum),  | -             | 10 to 2500  | high      |  |
| light arom.                   |               |             |           |  |
| butan-1-ol                    | 1             | -           | low       |  |
| 3,6-diazaoctanethylenediamin, | -1.66 to -1.4 | -           | low       |  |
| triethylenetetramine          |               |             |           |  |
| ethylenediamine               | -7.02         | -           | low       |  |

#### **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 Other adverse effects** : No known significant effects or critical hazards.

Date of revision

### **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 list          |  |

| Waste code          | Waste code definition   |  |  |  |
|---------------------|---|--|--|--|
| 08 01 11*           | Waste paint and varnish containing organic solvents or other dangerous substances   |  |  |  |
| Packaging           |   |  |  |  |
| Methods of disposal | <ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste<br/>packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible.</li> </ul>  |  |  |  |
| 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                     | UN1263  | UN1263   | UN1263                   | UN1263                 |
| 14.2 UN proper<br>shipping name    | Paint   | Paint  | Paint                    | Paint                  |
| 14.3 Transport<br>hazard class(es) | 3       | 3  | 3                        | 3                      |
| 14.4 Packing<br>group              | Ш       | III  |                          | 111                    |
| 14.5<br>Environmental<br>hazards   | No.     | Yes.   | No.                      | No.                    |
| Additional informa                 | tion    |  |                          |                        |
| ADR/RID                            |         | d identification number<br>al code (D/E)       | <b>er</b> 30             |                        |
| ADN                                |         | oduct is only regulated orted in tank vessels. | as an environmentally ha | azardous substance whe |
| IMDG                               | · Emer  | gency schedules F-E,                           | S-F                      |                        |

**14.6 Special precautions for : 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.

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

14.7 Transport in bulk according to IMO instruments

: Not available.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>Turkey Regulation No. 30105, KKDIK</u>

Annex 14 - List of substances subject to authorization

#### <u>Annex 14</u>

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

| Annex 17 - Restrictions | 1 | Not applicable. |
|-------------------------|---|-----------------|
| on the manufacture,     |   |                 |
| placing on the market   |   |                 |
| and use of certain      |   |                 |
| dangerous substances,   |   |                 |
| mixtures and articles   |   |                 |

#### **Ozone depleting substances**

Not listed.

#### Regulation on the prevention of major industrial accidents and reduction of their effects

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

#### Danger criteria

#### Category

P5c

#### EU regulations

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

| Intrinsic property                                     | Ingredient name | Status      |                    | Date of revision |
|--|-----------------|-------------|--------------------|------------------|
| Substance of<br>equivalent concern for<br>human health | ethylenediamine | Recommended | D(2021)<br>4569-DC | 12.04.2023       |

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

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

#### International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals

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

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

# 15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms       | <ul> <li>ATE = Acute Toxicity Estimate<br/>EUH statement = SEA-specific Hazard statement<br/>N/A = Not available<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>SGG = Segregation Group</li> </ul> |
|----------------------------------|--|
|                                  | vPvB = Very Persistent and Very Bioaccumulative  |
| Due and the transfer dealers the | alexation according to regulation SEA, DC 40/42/20   |

#### Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Dam. 1, H318        | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| STOT SE 3, H335         | Calculation method    |
| Aquatic Chronic 3, H412 | Calculation method    |

#### 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.   |  |
| H331 | Toxic if inhaled.  |  |
| 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.   |  |
| H373 | May cause damage to organs through prolonged or repeated exposure.         |  |
| H411 | Toxic to aquatic life with long lasting effects.                           |  |
| H412 | Harmful to aquatic life with long lasting effects.                         |  |

Full text of classifications [SEA/GHS]

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

| Acute Tox. 3           | ACUTE TOXICITY - Category 3                                     |  |
|------------------------|---|--|
| Acute Tox. 4           | ACUTE TOXICITY - Category 4                                     |  |
| Aquatic Chronic 2      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |  |
| Aquatic Chronic 3      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |  |
| 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                                  |  |
| Resp. Sens. 1          | RESPIRATORY SENSITISATION - Category 1                          |  |
| Skin Corr. 1B          | SKIN CORROSION/IRRITATION - Category 1B                         |  |
| Skin Corr. 1C          | SKIN CORROSION/IRRITATION - Category 1C                         |  |
| Skin Irrit. 2          | SKIN CORROSION/IRRITATION - Category 2                          |  |
| Skin Sens. 1           | SKIN SENSITISATION - Category 1                                 |  |
| STOT RE 2              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |  |
| STOT SE 3              | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |  |
| Date of printing       | : 29.11.2023  |  |
| Date of issue/ Date of | : 29.11.2023  |  |
| revision               |   |  |

| Date of previous issue | : No previous validation              |
|------------------------|---------------------------------------|
|                        | · · · · · · · · · · · · · · · · · · · |

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Version

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#### Notice to reader

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If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.