

# SAFETY DATA SHEET



Date of issue/Date of revision

: 9 October 2026

Version

: 1.01

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

### 1.1 Product identifier

**Product name** : RAVEN 405 BLUE LINED - B  
**Product code** : 00465058  
**Product type** : Liquid.  
**Other means of identification** : Not available.

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

**Product use** : Industrial applications, Professional applications, Used by spraying.  
**Use of the substance/mixture** : Coating.  
**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL  
Tweemontstraat 104  
B-2100 Deurne  
Belgium  
Telephone +32-33606311  
Fax +32-33606435

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

### 1.4 Emergency telephone number

#### Supplier

+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to UK CLP/GHS

Acute Tox. 4, H302  
Acute Tox. 3, H331  
Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
Muta. 2, H341  
Repr. 1B, H360Fd  
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.

### 2.2 Label elements

#### **Hazard pictograms**



|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
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SECTION 2: Hazards identification

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word</b>                                                                                                                        | : Danger                                                                                                                                                                                                                                                                                            |
| <b>Hazard statements</b>                                                                                                                  | : Harmful if swallowed.<br>Causes severe skin burns and eye damage.<br>May cause an allergic skin reaction.<br>Toxic if inhaled.<br>Suspected of causing genetic defects.<br>May damage fertility. Suspected of damaging the unborn child.<br>Very toxic to aquatic life with long lasting effects. |
| <b>Precautionary statements</b>                                                                                                           |                                                                                                                                                                                                                                                                                                     |
| <b>Prevention</b>                                                                                                                         | : Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment.                                                                                                                                                                                         |
| <b>Response</b>                                                                                                                           | : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor.                                                                                                                                                               |
| <b>Storage</b>                                                                                                                            | : Not applicable.                                                                                                                                                                                                                                                                                   |
| <b>Disposal</b>                                                                                                                           | : Dispose of contents and container in accordance with all local, regional, national and international regulations.<br>P280, P273, P391, P308 + P313, P304 + P310, P501                                                                                                                             |
| <b>Supplemental label elements</b>                                                                                                        | : Contains epoxy constituents. May produce an allergic reaction.                                                                                                                                                                                                                                    |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : Restricted to professional users.                                                                                                                                                                                                                                                                 |
| <b>Special packaging requirements</b>                                                                                                     |                                                                                                                                                                                                                                                                                                     |
| <b>Containers to be fitted with child-resistant fastenings</b>                                                                            | : Not applicable.                                                                                                                                                                                                                                                                                   |
| <b>Tactile warning of danger</b>                                                                                                          | : Not applicable.                                                                                                                                                                                                                                                                                   |
| <b>2.3 Other hazards</b>                                                                                                                  |                                                                                                                                                                                                                                                                                                     |
| <b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>                                  | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.                                                                                                                                                                                                             |
| <b>Other hazards which do not result in classification</b>                                                                                | : Causes digestive tract burns. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F.                                                                                                                    |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name                                                                                       | Identifiers                                                                             | %         | Classification                                                                                                                                  | Type |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|
|  m-phenylenebis(methylamine) | REACH #:<br>01-2119480150-50<br>EC: 216-032-5<br>CAS: 1477-55-0                         | ≥10 - ≤22 | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412<br>EUH071 | [1]  |
| 4-nonylphenol, branched                                                                                       | REACH #:<br>01-2119510715-45<br>EC: 284-325-5<br>CAS: 84852-15-3<br>Index: 601-053-00-8 | ≥10 - ≤25 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>Aquatic Acute 1, H400 (M=10)                                | [1]  |

English (GB)

United Kingdom (UK)

2/20

Code : 00465058

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

|                                                                                                             |                                                                                        |             |                                                                                                                                                                          |         |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-                           | REACH #:<br>01-2119557899-12<br>EC: 618-561-0<br>CAS: 9046-10-0 (n = 2-6)              | ≥10 - ≤25   | Aquatic Chronic 1, H410 (M=10)<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412                                                                     | [1]     |
| Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)                      | EC: 500-137-0<br>CAS: 57214-10-5                                                       | ≥5.0 - ≤10  | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                                                                                                             | [1]     |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | CAS: 110839-13-9                                                                       | ≥5.0 - ≤10  | Acute Tox. 4, H302<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                                                                                     | [1]     |
| 2,2'-iminodiethylamine                                                                                      | REACH #:<br>01-2119473793-27<br>EC: 203-865-4<br>CAS: 111-40-0<br>Index: 612-058-00-X  | ≥5.0 - ≤9.8 | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 2, H330<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335                       | [1] [2] |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine                                                                | REACH #:<br>01-2119514687-32<br>EC: 220-666-8<br>CAS: 2855-13-2<br>Index: 612-067-00-9 | ≥5.0 - ≤10  | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317                                                                                     | [1]     |
| 4,4'-methylenebis(cyclohexylamine)                                                                          | REACH #:<br>01-2119541673-38<br>EC: 217-168-8<br>CAS: 1761-71-3                        | ≥1.0 - ≤5.0 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT RE 2, H373 (liver) (oral)<br>Aquatic Chronic 2, H411                         | [1]     |
| Formaldehyde, polymer with benzenamine, hydrogenated                                                        | CAS: 135108-88-2                                                                       | ≥1.0 - ≤5.0 | Acute Tox. 3, H301<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>STOT RE 2, H373 (kidneys) (oral)<br>Aquatic Chronic 3, H412                      | [1]     |
| 4,4'-isopropylidenediphenol                                                                                 | REACH #:<br>01-2119457856-23<br>EC: 201-245-8<br>CAS: 80-05-7<br>Index: 604-030-00-0   | ≥1.0 - ≤5.0 | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Repr. 1B, H360F<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=10)                            | [1] [2] |
| phenol                                                                                                      | REACH #:<br>01-2119471329-32<br>EC: 203-632-7<br>CAS: 108-95-2<br>Index: 604-001-00-2  | ≤2.0        | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Muta. 2, H341<br>STOT RE 2, H373<br>Aquatic Chronic 2, H411 | [1] [2] |
| epoxy resin (MW ≤ 700)                                                                                      | REACH #:<br>01-2119456619-26<br>EC: 500-033-5                                          | ≤0.30       | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                                                          | [1]     |

|                                 |                                                        |
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|  |                 |  |                                                                                                        |
|--|-----------------|--|--------------------------------------------------------------------------------------------------------|
|  | CAS: 25068-38-6 |  | Aquatic Chronic 2, H411<br><b>See Section 16 for the full text of the H statements declared above.</b> |
|--|-----------------|--|--------------------------------------------------------------------------------------------------------|

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.

Type

☒ [1] Substance classified with a health or environmental hazard

☐ [2] Substance with a workplace exposure limit

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

**SUB codes represent substances without registered CAS Numbers.**

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- |                                   |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                | : 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.                                                                                                                                                                                                                               |
| <b>Inhalation</b>                 | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.                                                                                                                                                                                                    |
| <b>Skin contact</b>               | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.                                                                                                                                                                                                                                                |
| <b>Ingestion</b>                  | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.                                                                                                                                                                                                                                                              |
| <b>Protection of first-aiders</b> | : 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

- |                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Causes serious eye damage.                                            |
| <b>Inhalation</b>   | : Toxic if inhaled.                                                     |
| <b>Skin contact</b> | : Causes severe burns. May cause an allergic skin reaction.             |
| <b>Ingestion</b>    | : Harmful if swallowed. Corrosive to the digestive tract. Causes burns. |

Over-exposure signs/symptoms

- |                     |                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                                                                                                           |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations                                                          |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |

|                                 |                                                        |
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## SECTION 4: First aid measures

**Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
 carbon oxides  
 nitrogen oxides  
 Formaldehyde.

### 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.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS 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 personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

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## SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (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.  
 See Section 8 for information on appropriate personal protective equipment.  
 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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.

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**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                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,2'-iminodiethylamine      | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.<br>TWA 8 hours: 4.3 mg/m <sup>3</sup> .<br>TWA 8 hours: 1 ppm.                                                                       |
| 4,4'-isopropylidenediphenol | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b><br>TWA 8 hours: 2 mg/m <sup>3</sup> .                                                                                                                       |
| phenol                      | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.<br>TWA 8 hours: 2 ppm.<br>STEL 15 minutes: 16 mg/m <sup>3</sup> .<br>STEL 15 minutes: 4 ppm.<br>TWA 8 hours: 7.8 mg/m <sup>3</sup> . |

No exposure indices known.

**Recommended monitoring procedures**

Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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**

|                                                                                                             |                                                     |          |                        |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|------------------------|
| 4-nonylphenol, branched                                                                                     | DNEL - Workers - Long term - Inhalation             | Local    | 0.2 mg/m <sup>3</sup>  |
|                                                                                                             | DNEL - Workers - Long term - Dermal                 | Systemic | 0.33 mg/kg bw/day      |
|                                                                                                             | DNEL - Workers - Long term - Inhalation             | Systemic | 1.2 mg/m <sup>3</sup>  |
|                                                                                                             | DNEL - General population - Short term - Oral       | Systemic | 0.4 mg/kg bw/day       |
|                                                                                                             | DNEL - General population - Short term - Inhalation | Systemic | 0.8 mg/m <sup>3</sup>  |
|                                                                                                             | DNEL - General population - Short term - Dermal     | Systemic | 7.6 mg/kg bw/day       |
|                                                                                                             | DNEL - General population - Long term - Oral        | Systemic | 0.08 mg/kg bw/day      |
|                                                                                                             | DNEL - General population - Long term - Inhalation  | Systemic | 0.4 mg/m <sup>3</sup>  |
|                                                                                                             | DNEL - Workers - Long term - Inhalation             | Systemic | 0.5 mg/m <sup>3</sup>  |
|                                                                                                             | DNEL - Workers - Short term - Inhalation            | Systemic | 1 mg/m <sup>3</sup>    |
|                                                                                                             | DNEL - General population - Long term - Dermal      | Systemic | 3.8 mg/kg bw/day       |
|                                                                                                             | DNEL - Workers - Long term - Dermal                 | Systemic | 7.5 mg/kg bw/day       |
|                                                                                                             | DNEL - Workers - Short term - Dermal                | Systemic | 15 mg/kg bw/day        |
|                                                                                                             | DNEL - Workers - Long term - Inhalation             | Systemic | 1.36 mg/m <sup>3</sup> |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene) bis[oxirane] | DNEL - Workers - Long term - Dermal                 | Systemic | 2.5 mg/kg bw/day       |
|                                                                                                             | DNEL - General population - Long term - Oral        | Systemic | 0.33 mg/kg bw/day      |
|                                                                                                             | DNEL - General population - Long term - Inhalation  | Systemic | 0.58 mg/m <sup>3</sup> |

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

|                                                               |                                                     |          |                         |
|---------------------------------------------------------------|-----------------------------------------------------|----------|-------------------------|
| 2,2'-iminodiethylamine                                        | DNEL - General population - Long term - Dermal      | Systemic | 0.66 mg/kg bw/day       |
|                                                               | DNEL - General population - Short term - Oral       | Systemic | 0.99 mg/kg bw/day       |
|                                                               | DNEL - General population - Short term - Inhalation | Systemic | 1.74 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Long term - Dermal                 | Systemic | 1.87 mg/kg bw/day       |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 3.29 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Short term - Inhalation            | Systemic | 9.84 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Long term - Dermal                 | Local    | 1.1 mg/cm <sup>2</sup>  |
|                                                               | DNEL - Workers - Long term - Inhalation             | Local    | 0.87 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Long term - Dermal                 | Local    | 1.1 mg/cm <sup>2</sup>  |
|                                                               | DNEL - Workers - Short term - Inhalation            | Local    | 2.6 mg/m <sup>3</sup>   |
|                                                               | DNEL - General population - Long term - Inhalation  | Systemic | 4.6 mg/m <sup>3</sup>   |
|                                                               | DNEL - General population - Short term - Dermal     | Systemic | 4.88 mg/kg bw/day       |
|                                                               | DNEL - General population - Long term - Dermal      | Systemic | 4.88 mg/kg bw/day       |
|                                                               | DNEL - Workers - Long term - Dermal                 | Systemic | 11.4 mg/kg bw/day       |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 15.4 mg/m <sup>3</sup>  |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine              | DNEL - General population - Short term - Inhalation | Systemic | 27.5 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Short term - Inhalation            | Systemic | 92.1 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Short term - Inhalation            | Local    | 0.073 mg/m <sup>3</sup> |
| 4,4'-methylenebis<br>(cyclohexylamine)                        | DNEL - Workers - Long term - Inhalation             | Local    | 0.073 mg/m <sup>3</sup> |
|                                                               | DNEL - General population - Long term - Oral        | Systemic | 0.3 mg/kg bw/day        |
|                                                               | DNEL - General population - Short term - Oral       | Systemic | 0.3 mg/kg bw/day        |
| Formaldehyde,<br>polymer with<br>benzenamine,<br>hydrogenated | DNEL - Workers - Long term - Dermal                 | Systemic | 0.053 mg/kg bw/day      |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 0.13 mg/m <sup>3</sup>  |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 0.2 mg/m <sup>3</sup>   |
| 4,4'-<br>isopropylidenediphenol                               | DNEL - Workers - Long term - Dermal                 | Systemic | 2 mg/kg bw/day          |
|                                                               | DNEL - Workers - Short term - Inhalation            | Systemic | 2 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Short term - Dermal                | Systemic | 6 mg/kg bw/day          |
|                                                               | DNEL - General population - Short term - Dermal     | Systemic | 24 µg/kg bw/day         |
|                                                               | DNEL - General population - Long term - Dermal      | Systemic | 24 µg/kg bw/day         |
| phenol                                                        | DNEL - General population - Short term - Oral       | Systemic | 53 µg/kg bw/day         |
|                                                               | DNEL - General population - Long term - Oral        | Systemic | 53 µg/kg bw/day         |
|                                                               | DNEL - Workers - Short term - Dermal                | Systemic | 66 µg/kg bw/day         |
|                                                               | DNEL - Workers - Long term - Dermal                 | Systemic | 66 µg/kg bw/day         |
|                                                               | DNEL - General population - Short term - Inhalation | Local    | 1 mg/m <sup>3</sup>     |
|                                                               | DNEL - General population - Long term - Inhalation  | Local    | 1 mg/m <sup>3</sup>     |
|                                                               | DNEL - General population - Short term - Inhalation | Systemic | 1 mg/m <sup>3</sup>     |
|                                                               | DNEL - General population - Long term - Inhalation  | Systemic | 1 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Short term - Inhalation            | Local    | 2 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Long term - Inhalation             | Local    | 2 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Short term - Inhalation            | Systemic | 2 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 2 mg/m <sup>3</sup>     |
|                                                               | DNEL - General population - Long term - Inhalation  | Systemic | 0.452 mg/m <sup>3</sup> |
|                                                               | DNEL - General population - Long term - Oral        | Systemic | 0.5 mg/kg bw/day        |
|                                                               | DNEL - General population - Long term - Dermal      | Systemic | 0.5 mg/kg bw/day        |
|                                                               | DNEL - Workers - Long term - Dermal                 | Systemic | 1.23 mg/kg bw/day       |
|                                                               | DNEL - Workers - Long term - Inhalation             | Systemic | 8 mg/m <sup>3</sup>     |
|                                                               | DNEL - Workers - Short term - Inhalation            | Local    | 16 mg/m <sup>3</sup>    |
| epoxy resin (MW ≤                                             | DNEL - Workers - Long term - Inhalation             | Systemic | 12.25 mg/m <sup>3</sup> |

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|      |                                                             |          |                         |
|------|-------------------------------------------------------------|----------|-------------------------|
| 700) | DNEL - Workers - Short term - Inhalation                    | Systemic | 12.25 mg/m <sup>3</sup> |
|      | DNEL - Workers - Long term - Dermal                         | Systemic | 8.33 mg/kg bw/day       |
|      | DNEL - Workers - Short term - Dermal                        | Systemic | 8.33 mg/kg bw/day       |
|      | DNEL - General population - Consumers - Long term - Dermal  | Systemic | 3.571 mg/kg bw/day      |
|      | DNEL - General population - Consumers - Short term - Dermal | Systemic | 3.571 mg/kg bw/day      |
|      | DNEL - General population - Consumers - Long term - Oral    | Systemic | 0.75 mg/kg bw/day       |
|      | DNEL - General population - Consumers - Short term - Oral   | Systemic | 0.75 mg/kg bw/day       |
|      |                                                             |          |                         |

**PNECs**

| Product/ingredient name                                                                                         | Compartment Detail - Method                      | Value           |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-<br><br>2,2'-iminodiethylamine | Fresh water - Assessment Factors                 | 0.015 mg/l      |
|                                                                                                                 | Marine water - Assessment Factors                | 0.014 mg/l      |
|                                                                                                                 | Sewage Treatment Plant - Assessment Factors      | 7.5 mg/l        |
|                                                                                                                 | Fresh water sediment - Equilibrium Partitioning  | 0.132 mg/kg dwt |
|                                                                                                                 | Marine water sediment - Equilibrium Partitioning | 0.125 mg/kg dwt |
|                                                                                                                 | Soil - Equilibrium Partitioning                  | 0.018 mg/kg dwt |
|                                                                                                                 | Fresh water - Assessment Factors                 | 0.56 mg/l       |
|                                                                                                                 | Marine water - Assessment Factors                | 0.056 mg/l      |
|                                                                                                                 | Sewage Treatment Plant - Assessment Factors      | 6 mg/l          |
|                                                                                                                 | Fresh water sediment - Equilibrium Partitioning  | 1072 mg/kg dwt  |
| 4,4'-isopropylidenediphenol                                                                                     | Marine water sediment - Equilibrium Partitioning | 107.2 mg/kg dwt |
|                                                                                                                 | Soil                                             | 7.97 mg/kg dwt  |
|                                                                                                                 | Fresh water - Sensitivity Distribution           | 0.018 mg/l      |
|                                                                                                                 | Marine water - Sensitivity Distribution          | 0.018 mg/l      |
|                                                                                                                 | Sewage Treatment Plant - Assessment Factors      | 320 mg/l        |
| epoxy resin (MW ≤ 700)                                                                                          | Fresh water sediment - Assessment Factors        | 1.2 mg/kg dwt   |
|                                                                                                                 | Marine water sediment - Assessment Factors       | 0.24 mg/kg dwt  |
|                                                                                                                 | Soil - Assessment Factors                        | 3.7 mg/kg dwt   |
|                                                                                                                 | Fresh water - Assessment Factors                 | 0.006 mg/l      |
|                                                                                                                 | Marine water - Assessment Factors                | 0.001 mg/l      |
|                                                                                                                 | Sewage Treatment Plant - Assessment Factors      | 10 mg/l         |
|                                                                                                                 | Fresh water sediment - Equilibrium Partitioning  | 0.996 mg/kg dwt |
|                                                                                                                 | Marine water sediment - Equilibrium Partitioning | 0.1 mg/kg dwt   |

**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 contaminants below any recommended or statutory limits.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles and face shield.

**Skin protection**

**Body protection** : butyl rubber

: 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.

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|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                                                                                                                                                                                                                       |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Colour

Odour

Odour threshold

Melting point/freezing point

Initial boiling point and boiling range

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flash point

Auto-ignition temperature

Ingredient name

°C

°F

Method

4,4'-methylenebis(cyclohexylamine)

300

572

EU A.15

pH

Not applicable.

Not applicable. insoluble in water.

Viscosity

Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): >21 mm²/s

Solubility(ies)

Media

Result

cold water

Not soluble

Miscible with water

No.

Partition coefficient: n-octanol/ water

Not applicable.

Vapour pressure

Ingredient name

mm Hg

kPa

Method

Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-

0.675

0.09

mm Hg

kPa

Method

1.575

0.21

|                                 |                                                        |
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SECTION 9: Physical and chemical properties

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Relative density</b>         | : 1.05                                                                                                                    |
| <b>Explosive properties</b>     | : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. |
| <b>Oxidising properties</b>     | : Product does not present an oxidizing hazard.                                                                           |
| <b>Particle characteristics</b> |                                                                                                                           |
| <b>Median particle size</b>     | : Not applicable.                                                                                                         |

SECTION 10: Stability and reactivity

|                                                |                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                                  |
| <b>10.2 Chemical stability</b>                 | : The product is stable.                                                                                                                      |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                             |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8. |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.              |
| <b>10.6 Hazardous decomposition products</b>   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde.            |

SECTION 11: Toxicological information

|                                                                                                             |                                                                                                                                |                            |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>11.1 Information on toxicological effects</b>                                                            |                                                                                                                                |                            |
| <b>Acute toxicity</b>                                                                                       |                                                                                                                                |                            |
| <b>Product/ingredient name</b>                                                                              | <b>Result</b>                                                                                                                  | <b>Dose / Exposure</b>     |
| m-phenylenebis(methylamine)                                                                                 | Rat - Oral - LD50                                                                                                              | 930 mg/kg                  |
|                                                                                                             | Rat - Male, Female - Dermal - LD50                                                                                             | >3100 mg/kg                |
|                                                                                                             | Rat - Inhalation - LC50 Gas.                                                                                                   | 700 ppm [1 hours]          |
|                                                                                                             | <i>Toxic effects:</i> Eye - Lacrimation Lung, Thorax, or Respiration - Respiratory depression                                  |                            |
| 4-nonylphenol, branched                                                                                     | Rabbit - Dermal - LD50                                                                                                         | 2.14 g/kg                  |
|                                                                                                             | Rat - Oral - LD50                                                                                                              | 1300 mg/kg                 |
|                                                                                                             | <i>Toxic effects:</i> Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain |                            |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-                           | Rat - Oral - LD50                                                                                                              | 2885 mg/kg                 |
|                                                                                                             | Rat - Dermal - LD50                                                                                                            | 2980 mg/kg                 |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | Rat - Female - Oral - LD50                                                                                                     | 1000 mg/kg                 |
|                                                                                                             |                                                                                                                                |                            |
| 2,2'-iminodiethylamine                                                                                      | Rat - Male, Female - Dermal - LD50                                                                                             | >2000 mg/kg                |
|                                                                                                             | Rat - Oral - LD50                                                                                                              | 1080 mg/kg                 |
|                                                                                                             | <i>Toxic effects:</i> Behavioral - Convulsions or effect on seizure threshold                                                  |                            |
|                                                                                                             | Rabbit - Dermal - LD50                                                                                                         | 1090 mg/kg                 |
|                                                                                                             | Rat - Inhalation - LC50 Dusts and mists                                                                                        | 0.07 to 0.3 mg/l [4 hours] |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine                                                                | Rat - Oral - LD50                                                                                                              | 1030 mg/kg                 |

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|                                                                                     |                                                                                                                                                                                                                                                                                                                                            |                                                                                 |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 4,4'-methylenebis(cyclohexylamine)                                                  | Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists<br>Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Oral - LD50                                                                                                                                                                                                         | >2000 mg/kg<br>>5.01 mg/l [4 hours]<br>0.625 g/kg<br>2.11 g/kg<br>300 mg/kg     |
| Formaldehyde, polymer with benzenamine, hydrogenated<br>4,4'-isopropylidenediphenol | Rat - Oral - LD50<br><u>Toxic effects:</u> Lung, Thorax, or Respiration - Dyspnea<br>Lung, Thorax, or Respiration - Cyanosis<br>Rabbit - Dermal - LD50<br><u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)<br>Cardiac - Other changes<br>Lung, Thorax, or Respiration - Changes in pulmonary vascular resistance | 3.25 g/kg<br>3600 mg/kg                                                         |
| phenol                                                                              | Rat - Dermal - LD50<br><u>Toxic effects:</u> Behavioral - Tremor<br>Kidney, Ureter, and Bladder - Hematuria<br>Skin After topical exposure - Cutaneous sensitization (experimental)<br>Rat - Oral - LD50<br>Rat - Inhalation - LC50 Dusts and mists<br>Rat - Oral - LD50<br>Rabbit - Dermal - LD50                                         | 669 mg/kg<br>0.34 g/kg<br>900 mg/m <sup>3</sup> [4 hours]<br>>2 g/kg<br>>2 g/kg |
| epoxy resin (MW ≤ 700)                                                              |                                                                                                                                                                                                                                                                                                                                            |                                                                                 |

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

| Product/ingredient name                                                                                     | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------------------------------------------------------------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| RAVEN 405 BLUE LINED - B                                                                                    | 1103.3       | 13198.9        | 22035.7                  | N/A                         | 0.80                                |
| m-phenylenebis(methylamine)                                                                                 | 930          | N/A            | 4500                     | N/A                         | N/A                                 |
| 4-nonylphenol, branched                                                                                     | 1300         | 2140           | N/A                      | N/A                         | N/A                                 |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-                           | 2885         | 2980           | N/A                      | N/A                         | N/A                                 |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | 1000         | N/A            | N/A                      | N/A                         | N/A                                 |
| 2,2'-iminodiethylamine                                                                                      | 1080         | 1090           | N/A                      | N/A                         | 0.05                                |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine                                                                | 1030         | N/A            | N/A                      | N/A                         | N/A                                 |
| 4,4'-methylenebis(cyclohexylamine)                                                                          | 625          | 2110           | N/A                      | N/A                         | N/A                                 |
| Formaldehyde, polymer with benzenamine, hydrogenated                                                        | 300          | N/A            | N/A                      | N/A                         | N/A                                 |
| 4,4'-isopropylidenediphenol                                                                                 | 3250         | 3600           | N/A                      | N/A                         | N/A                                 |
| phenol                                                                                                      | 100          | 669            | N/A                      | N/A                         | 0.9                                 |

**Irritation/Corrosion**

| Product/ingredient name     | Result                                                                                                        |
|-----------------------------|---------------------------------------------------------------------------------------------------------------|
| m-phenylenebis(methylamine) | <u>Rat - Skin - Severe irritant</u><br>Duration of treatment/exposure: 4 hours<br>Observation period: 4 hours |
| 4-nonylphenol, branched     | <u>Rabbit - Skin - Erythema/Eschar</u><br>Irritation score: 4                                                 |
| epoxy resin (MW ≤ 700)      | <u>Rabbit - Skin - Mild irritant</u>                                                                          |
| -                           | <u>Rabbit - Eyes - Mild irritant</u>                                                                          |

**Conclusion/Summary** : Not available.**Skin**

: There are no data available on the mixture itself.

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**SECTION 11: Toxicological information****Eyes** : There are no data available on the mixture itself.**Respiratory** : There are no data available on the mixture itself.**Sensitisation**

| Product/ingredient name                          |                               | Result      |
|--------------------------------------------------|-------------------------------|-------------|
| m-phenylenebis(methylamine)                      | Mouse - skin<br>OECD 429      | Sensitising |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | Guinea pig - skin<br>OECD 406 | Sensitising |
| epoxy resin (MW ≤ 700)                           | Mouse - skin<br>OECD 429      | Sensitising |

**Conclusion/Summary****Skin** : There are no data available on the mixture itself.**Respiratory** : There are no data available on the mixture itself.**Mutagenicity****Conclusion/Summary** : There are no data available on the mixture itself.**Carcinogenicity****Conclusion/Summary** : There are no data available on the mixture itself.**Reproductive toxicity****Conclusion/Summary** : There are no data available on the mixture itself.**Specific target organ toxicity (single exposure)**

| Product/ingredient name     | Category   | Route of exposure | Target organs                |
|-----------------------------|------------|-------------------|------------------------------|
| 2,2'-iminodiethylamine      | Category 3 | -                 | Respiratory tract irritation |
| 4,4'-isopropylidenediphenol | Category 3 | -                 | Respiratory tract irritation |

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

| Product/ingredient name                                     | Category   | Route of exposure | Target organs |
|-------------------------------------------------------------|------------|-------------------|---------------|
| 4,4'-methylenebis(cyclohexylamine)                          | Category 2 | oral              | liver         |
| Formaldehyde, polymer with benzenamine, hydrogenated phenol | Category 2 | oral              | kidneys       |
|                                                             | Category 2 | -                 | -             |

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Not available.**Potential acute health effects****Eye contact** : Causes serious eye damage.**Inhalation** : Toxic if inhaled.**Skin contact** : Causes severe burns. May cause an allergic skin reaction.**Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:

- pain
- watering
- redness

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                         |                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------|
| <u>Short term exposure</u>              |                                                                                                       |
| <b>Potential immediate effects</b>      | : Not available.                                                                                      |
| <b>Potential delayed effects</b>        | : Not available.                                                                                      |
| <u>Long term exposure</u>               |                                                                                                       |
| <b>Potential immediate effects</b>      | : Not available.                                                                                      |
| <b>Potential delayed effects</b>        | : Not available.                                                                                      |
| <u>Potential chronic health effects</u> |                                                                                                       |
| <b>Conclusion/Summary</b>               | : Not available.                                                                                      |
| <b>General</b>                          | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <b>Carcinogenicity</b>                  | : No known significant effects or critical hazards.                                                   |
| <b>Mutagenicity</b>                     | : Suspected of causing genetic defects.                                                               |
| <b>Reproductive toxicity</b>            | : May damage fertility. Suspected of damaging the unborn child.                                       |

Other information  
Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

| Product/ingredient name                                                                                                                                                          | Result                       | Species                                                | Dose / Exposure       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|-----------------------|
| 4-nonylphenol, branched                                                                                                                                                          | Acute - LC50                 | Fish                                                   | 0.221 mg/l [96 hours] |
|                                                                                                                                                                                  | Acute - EC50                 | Algae - Green algae - <i>Raphidocelis subcapitata</i>  | 0.04 mg/l [72 hours]  |
|                                                                                                                                                                                  | Chronic - EC10 - Fresh water | Algae - Green algae - <i>Desmodesmus subspicatus</i>   | 0.37 mg/l [72 hours]  |
|                                                                                                                                                                                  | Acute - LC50 - Fresh water   | Crustaceans - Water flea - <i>Ceriodaphnia cornuta</i> | 20 µg/l [48 hours]    |
|                                                                                                                                                                                  | EC50                         | Algae                                                  | 15 mg/l [72 hours]    |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] | LC50                         | Fish                                                   | 8.72 mg/l [96 hours]  |

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| bis[oxirane]                                         | EC50                         | Daphnia                                               | 3.54 mg/l [48 hours]     |
| 2,2'-iminodiethylamine                               | EC50                         | Algae                                                 | 1.83 mg/l [72 hours]     |
| Formaldehyde, polymer with benzenamine, hydrogenated | Acute - LC50                 | Fish                                                  | 430 mg/l [96 hours]      |
|                                                      | Acute - LC50                 | Fish                                                  | 63 mg/l [96 hours]       |
| 4,4'-isopropylidenediphenol                          | Acute - EC50                 | Daphnia                                               | 15.4 mg/l [48 hours]     |
|                                                      | Acute - EC50                 | Algae                                                 | 43.94 mg/l [72 hours]    |
|                                                      | Acute - LC50 - Fresh water   | Fish                                                  | 4.6 mg/l [96 hours]      |
|                                                      | Acute - LC50 - Fresh water   | Crustaceans                                           | 0.885 mg/l [48 hours]    |
|                                                      | Chronic - NOEC - Fresh water | Fish                                                  | 0.000174 mg/l [5 months] |
|                                                      | Acute - EC50                 | Algae - Green algae - <i>Raphidocelis subcapitata</i> | 1.32 mg/l [72 hours]     |
|                                                      | Chronic - EC10               | Algae - Green algae - <i>Raphidocelis subcapitata</i> | 1.189 mg/l [72 hours]    |
| phenol                                               | Chronic - IC10 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 2.38 mg/l [21 days]      |
|                                                      | Acute - LC50                 | Fish - <i>Oncorhynchus mykiss</i>                     | 8.9 mg/l [96 hours]      |
|                                                      | Acute - LC50                 | Daphnia - <i>Daphnia magna</i>                        | 3.1 mg/l [48 hours]      |
| epoxy resin (MW ≤ 700)                               | Chronic - NOEC               | Daphnia                                               | 0.3 mg/l [21 days]       |
|                                                      | Acute - LC50                 | Daphnia                                               | 1.8 mg/l [48 hours]      |

**Conclusion/Summary** : Not available.**12.2 Persistence and degradability**

| Product/ingredient name                              | Test      | Result                     | Dose / Inoculum |
|------------------------------------------------------|-----------|----------------------------|-----------------|
| 2,2'-iminodiethylamine                               | -         | 87% [21 days] - Readily    |                 |
| Formaldehyde, polymer with benzenamine, hydrogenated | -         | 0% [28 days] - Not readily |                 |
| epoxy resin (MW ≤ 700)                               | OECD 301F | 5% [28 days]               |                 |

**Conclusion/Summary** : Not available.

| Product/ingredient name                                                                                                                                                                      | Aquatic half-life | Photolysis | Biodegradability |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | -                 | -          | Not readily      |
| 2,2'-iminodiethylamine                                                                                                                                                                       | -                 | -          | Not readily      |
| Formaldehyde, polymer with benzenamine, hydrogenated                                                                                                                                         | -                 | -          | Readily          |
| 4,4'-isopropylidenediphenol                                                                                                                                                                  | -                 | -          | Not readily      |
| epoxy resin (MW ≤ 700)                                                                                                                                                                       | -                 | -          | Readily          |

**12.3 Bioaccumulative potential**

| Product/ingredient name                                                                                     | LogP <sub>ow</sub> | BCF                     | Potential |
|-------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|-----------|
| n-phenylenebis(methylamine)                                                                                 | 0.18               | 2.69                    | Low       |
| 4-nonylphenol, branched                                                                                     | 5.4                | 251.19 [ASTM E 1022-84] | Low       |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | 2.3                | -                       | Low       |
| 2,2'-iminodiethylamine                                                                                      | -5.58              | 4.47 [OECD 305 C]       | Low       |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine                                                                | 0.99               | -                       | Low       |
| 4,4'-methylenebis(cyclohexylamine)                                                                          | 2.03               | -                       | Low       |
| Formaldehyde, polymer with benzenamine,                                                                     | 2.68               | 209 to 219 [OECD        | Low       |

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
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SECTION 12: Ecological information

|                                                        |                  |                                           |                    |
|--------------------------------------------------------|------------------|-------------------------------------------|--------------------|
| hydrogenated bisphenol A phenol epoxy resin (MW ≤ 700) | 3.4<br>1.47<br>3 | 305 C]<br>43.65<br>647 [OECD 305 E]<br>31 | Low<br>High<br>Low |
|--------------------------------------------------------|------------------|-------------------------------------------|--------------------|

12.4 Mobility in soil

|                                         |                  |
|-----------------------------------------|------------------|
| <b>Soil/water partition coefficient</b> | : Not available. |
| <b>Mobility</b>                         | : Not available. |

12.5 Results of PBT and vPvB assessment

| Product/ingredient name                                                                                       | PBT | P   | B   | T   | vPvB | vP  | vB  |
|---------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|-----|-----|
| m-phenylenebis (methylamine)                                                                                  | No  | N/A | No  | No  | No   | N/A | No  |
| 4-nonylphenol, branched                                                                                       | No  | N/A | No  | Yes | No   | N/A | No  |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-                             | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine)                       | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 1,3-Benzenedimethanamine, polymer with 2,2'-(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane] | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 2,2'-iminodiethylamine                                                                                        | No  | N/A | No  | No  | No   | N/A | No  |
| 3-aminomethyl-                                                                                                | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 3,5,5-trimethylcyclohexylamine                                                                                | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 4,4'-methylenebis (cyclohexylamine)                                                                           | N/A | N/A | N/A | Yes | N/A  | N/A | N/A |
| Formaldehyde, polymer with benzenamine, hydrogenated                                                          | No  | N/A | No  | Yes | No   | N/A | No  |
| 4,4'-isopropylidenediphenol                                                                                   | No  | N/A | No  | Yes | No   | N/A | No  |
| phenol                                                                                                        | No  | N/A | No  | Yes | No   | N/A | No  |
| epoxy resin (MW ≤ 700)                                                                                        | No  | N/A | No  | No  | No   | N/A | No  |

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

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

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## SECTION 13: Disposal considerations

| Waste code | Waste designation                                              |
|------------|----------------------------------------------------------------|
| 08 01 12   | waste paint and varnish other than those mentioned in 08 01 11 |

### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                        | ADR/RID                                                                                                                                                                        | ADN                                                                                                                                                                            | IMDG                                                                                         | IATA                                                                                         |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>14.1 UN number</b>                  | UN2735                                                                                                                                                                         | UN2735                                                                                                                                                                         | UN2735                                                                                       | UN2735                                                                                       |
| <b>14.2 UN proper shipping name</b>    |  AMINES, LIQUID, CORROSIVE, N.O.S.<br>(m-phenylenebis (methylamine), 4-nonylphenol, branched) |  AMINES, LIQUID, CORROSIVE, N.O.S.<br>(m-phenylenebis (methylamine), 4-nonylphenol, branched) | AMINES, LIQUID, CORROSIVE, N.O.S.<br>(m-phenylenebis (methylamine), 4-nonylphenol, branched) | Amines, liquid, corrosive, n.o.s.<br>(m-phenylenebis (methylamine), 4-nonylphenol, branched) |
| <b>14.3 Transport hazard class(es)</b> | 8                                                                                                                                                                              | 8                                                                                                                                                                              | 8                                                                                            | 8                                                                                            |
| <b>14.4 Packing group</b>              | III                                                                                                                                                                            | III                                                                                                                                                                            | III                                                                                          | III                                                                                          |
| <b>14.5 Environmental hazards</b>      | Yes.                                                                                                                                                                           | Yes.                                                                                                                                                                           | Yes.                                                                                         | Yes. The environmentally hazardous substance mark is not required.                           |
| <b>Marine pollutant substances</b>     | Not applicable.                                                                                                                                                                | Not applicable.                                                                                                                                                                | (4-nonylphenol, branched)                                                                    | 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** : (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 ≤5 L or ≤5 kg.

**IATA** : 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 according to IMO instruments** : Not available.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK (GB)/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    | Reference number | Date of revision |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------|
|  Tox to reproduction<br>Substance of equivalent concern for human health<br>Substance of equivalent concern for environment | 4,4'-isopropylidenediphenol                                                                                                                                                                                                                                                      | Candidate | -                | 1/12/2017        |
|                                                                                                                                                                                                              | 4,4'-isopropylidenediphenol                                                                                                                                                                                                                                                      | Candidate | -                | 1/12/2017        |
|                                                                                                                                                                                                              | 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | Candidate | -                | 12/19/2012       |
|                                                                                                                                                                                                              | 4,4'-isopropylidenediphenol                                                                                                                                                                                                                                                      | Candidate | -                | 1/12/2017        |

**Explosive precursors** :  Not applicable.**Ozone depleting substances**

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

| Product/ingredient name                                                                                      | Entry Number (REACH) |
|--------------------------------------------------------------------------------------------------------------|----------------------|
|  RAVEN 405 BLUE LINED - B | 3                    |
| 4-nonylphenol, branched                                                                                      | 30                   |
| 4,4'-isopropylidenediphenol                                                                                  | 46                   |
|                                                                                                              | 30                   |
|                                                                                                              | 66                   |

**Labelling** : Restricted to professional users.**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

| Category                                                                               |
|----------------------------------------------------------------------------------------|
|  H2 |
| E1                                                                                     |

**SECTION 16: Other information** Indicates information that has changed from previously issued version.**Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and 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

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**SECTION 16: Other information****Procedure used to derive the classification**

| Classification          | Justification      |
|-------------------------|--------------------|
| Acute Tox. 4, H302      | Calculation method |
| Acute Tox. 3, H331      | Calculation method |
| Skin Corr. 1B, H314     | Calculation method |
| Eye Dam. 1, H318        | Calculation method |
| Skin Sens. 1, H317      | Calculation method |
| Muta. 2, H341           | Calculation method |
| Repr. 1B, H360Fd        | Calculation method |
| Aquatic Acute 1, H400   | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

**Full text of abbreviated H statements**

|        |                                                                          |
|--------|--------------------------------------------------------------------------|
| H301   | Toxic if swallowed.                                                      |
| H302   | Harmful if swallowed.                                                    |
| H311   | Toxic in contact with skin.                                              |
| 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.                                           |
| H330   | Fatal if inhaled.                                                        |
| H331   | Toxic if inhaled.                                                        |
| H332   | Harmful if inhaled.                                                      |
| H335   | May cause respiratory irritation.                                        |
| H341   | Suspected of causing genetic defects.                                    |
| H360F  | May damage fertility.                                                    |
| H360Fd | May damage fertility. Suspected of damaging the unborn child.            |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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.                       |
| EUH071 | Corrosive to the respiratory tract.                                      |

**Full text of classifications**

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| Acute Tox. 2      | ACUTE TOXICITY - Category 2                                     |
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| 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                 |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Muta. 2           | GERM CELL MUTAGENICITY - Category 2                             |
| Repr. 1B          | REPRODUCTIVE TOXICITY - Category 1B                             |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| 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                                 |
| Skin Sens. 1A     | SKIN SENSITISATION - Category 1A                                |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                                |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

**History**

|                                 |                   |                                       |                         |
|---------------------------------|-------------------|---------------------------------------|-------------------------|
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**SECTION 16: Other information**

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**Prepared by** : EHS

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