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

### 1.1 Product identifier

Product name : Penguard Midcoat 20 Comp A

Product code : 29802
Product description : Paint.
Product type : Liquid.
Other means of : Not available.

identification

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

Use in coatings - Industrial use
Use in coatings - Professional use

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

Jotun Boya Sanayi ve Ticaret A.Ş. Balabandere Caddesi, Hilpark Suites Sitesi No: 10, İstinye 34460 Sarıyer, İstanbul

Tel. +90 212 279 7878 SDSJotun@jotun.com

Başvurulacak Kişi: Deren Ercan deren.metiner@jotun.com

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# 1.4 Emergency telephone number

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

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

c. İTFAİYE:110

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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# SECTION 2: Hazards identification

**Hazard pictograms** 





Signal word : Warning.

: H226 - Flammable liquid and vapour. **Hazard statements** 

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

2,2-bis[4(2,3-epoksipropoksi)fenil]-propan **Hazardous ingredients** 

> Phenol, methylstyrenated glycidyl ether of 3-alkyl phenol

2-methylpropan-1-ol

Supplemental label

elements

: Contains epoxy constituents. May produce an allergic reaction.

**Annex 17 - Restrictions on** the manufacture, placing on the market and use of

certain dangerous

substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

: Not applicable.

**Tactile warning of danger** : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB

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

vPvB.

Other hazards which do not result in classification : None known.

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

3.2 Mixtures : Mixture

| Product/ingredient name                     | Identifiers  | %         | SEA: RG10/12/2020-31330   | Type    |
|---|--|-----------|---|---------|
| 2,2-bis[4(2,3-epoksipropoksi) fenil]-propan | EC: 216-823-5<br>CAS: 1675-54-3                          | ≥10 - <25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411   | [1]     |
| xylene                                      | EC: 215-535-7<br>CAS: 1330-20-7                          | ≤5        | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| Phenol, methylstyrenated                    | EC: 270-966-8<br>CAS: 68512-30-1                         | ≤5        | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412  | [1]     |
| glycidyl ether of 3-alkyl<br>phenol         | CAS: 68413-24-1  | ≤5        | Skin Sens. 1, H317  | [1]     |
| 2-methylpropan-1-ol                         | EC: 201-148-0<br>CAS: 78-83-1<br>Index:<br>603-108-00-1  | <3        | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336   | [1] [2] |
| benzyl alcohol                              | EC: 202-859-9<br>CAS: 100-51-6<br>Index:<br>603-057-00-5 | ≤3        | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319  | [1]     |
| ethylbenzene                                | EC: 202-849-4<br>CAS: 100-41-4<br>Index:<br>601-023-00-4 | ≤3        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                              | [1] [2] |
| Propylidynetrimethanol                      | EC: 201-074-9<br>CAS: 77-99-6                            | ≤0.3      | Repr. 2, H361fd  See Section 16 for the full text of the H statements declared above.   | [1]     |

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

# <u>Type</u>

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

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

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

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# **SECTION 4: First aid measures**

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

# Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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

pain or irritation watering redness

Inhalation : No specific data.

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

irritation redness

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

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# **SECTION 5: Firefighting measures**

Hazards from the substance or mixture

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

# Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### For emergency responders:

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

# **6.2 Environmental precautions**

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

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

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

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# **SECTION 7: Handling and storage**

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

## 7.1 Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

See Technical Data Sheet / packaging for further information.

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

# **Danger criteria**

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

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

## 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| <b>x</b> ýlene          | TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed isomers)] Absorbed through skin.  TWA: 221 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.  STEL: 442 mg/m³ 15 minutes. |
| 2-methylpropan-1-ol     | STEL: 100 ppm 15 minutes.  ACGIH TLV (United States, 1/2023).  TWA: 152 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.   |
| ethylbenzene            | TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin.   |

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

TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.

# **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

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

# **DNELs/DMELs**

| Product/ingredient name                        | Type | Exposure                 | Value                  | Population  | Effects  |
|--|------|--------------------------|------------------------|---|----------|
| 7,2-bis[4(2,3-epoksipropoksi)fenil]-<br>propan | DNEL | Long term Dermal         | 89.3 µg/kg<br>bw/day   | General population                                  | Systemic |
|  | DNEL | Long term Oral           | 0.5 mg/kg<br>bw/day    | General<br>population                               | Systemic |
|  | DNEL | Long term Dermal         | 0.75 mg/<br>kg bw/day  | Workers   | Systemic |
|  | DNEL | Long term<br>Inhalation  | 0.87 mg/m <sup>3</sup> | General<br>population                               | Systemic |
|  | DNEL | Long term<br>Inhalation  | 4.93 mg/m³             |   | Systemic |
| xylene   | DNEL | Long term Oral           | 12.5 mg/<br>kg bw/day  | General<br>population                               | Systemic |
|  | DNEL | Long term<br>Inhalation  | 65.3 mg/m <sup>3</sup> |   | Local    |
|  | DNEL | Long term Inhalation     | 65.3 mg/m³             |   | Systemic |
|  | DNEL | Long term Dermal         | 125 mg/kg<br>bw/day    | General<br>population                               | Systemic |
|  | DNEL | Long term Dermal         | 212 mg/kg<br>bw/day    | Workers   | Systemic |
|  | DNEL | Long term<br>Inhalation  | 221 mg/m <sup>3</sup>  | Workers   | Local    |
|  | DNEL | Long term<br>Inhalation  | 221 mg/m³              | Workers   | Systemic |
|  | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup>  | General population                                  | Local    |
|  | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup>  | General<br>population                               | Systemic |
|  | DNEL | Short term<br>Inhalation | 442 mg/m³              | Workers   | Local    |
|  | DNEL | Short term<br>Inhalation | 442 mg/m³              | Workers   | Systemic |
| Phenol, methylstyrenated                       | DNEL | Long term Dermal         | 16.4 mg/<br>kg bw/day  | Workers   | Systemic |
|  | DNEL | Long term<br>Inhalation  | 57 mg/m³               | General population [Consumers]                      | Systemic |
|  | DNEL | Long term Dermal         | 8 mg/kg<br>bw/day      | General population                                  | Systemic |
|  | DNEL | Long term<br>Inhalation  | 28 mg/m³               | [Consumers]<br>General<br>population<br>[Consumers] | Systemic |

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

|   | •                                |           | •                 |                         |             |              |
|---|----------------------------------|-----------|-------------------|-------------------------|-------------|--------------|
|   |                                  | DNEL      | Long term Oral    | 4 mg/kg                 | General     | Systemic     |
|   |                                  |           |                   | bw/day                  | population  |              |
|   |                                  |           |                   | -                       | [Consumers] |              |
|   |                                  | DNEL      | Long term Oral    | 0.2 mg/kg               | General     | Systemic     |
|   |                                  | DIVEL     | Long tomi oral    | bw/day                  | population  | Cyclonic     |
|   |                                  | DNE       | Longtorm          | ,                       |             | Customio     |
|   |                                  | DNEL      | Long term         | 0.348 mg/               | General     | Systemic     |
|   |                                  |           | Inhalation        | m³                      | population  |              |
|   |                                  | DNEL      | Long term         | 1.41 mg/m <sup>3</sup>  | Workers     | Systemic     |
|   |                                  |           | Inhalation        |                         |             |              |
|   |                                  | DNEL      | Long term Dermal  | 1.67 mg/                | General     | Systemic     |
|   |                                  |           |                   | kg bw/day               | population  | -,           |
|   |                                  | DNEL      | Long term Dermal  | 3.5 mg/kg               | Workers     | Systemic     |
|   |                                  | DINLL     | Long term Dermai  |                         | WOIKEIS     | Systemic     |
|   |                                  | D. 151    |                   | bw/day                  |             |              |
|   | glycidyl ether of 3-alkyl phenol | DNEL      | Long term Oral    | 0.31 mg/                | General     | Systemic     |
|   |                                  |           |                   | kg bw/day               | population  |              |
|   |                                  | DNEL      | Long term Dermal  | 0.31 mg/                | General     | Systemic     |
|   |                                  |           | -                 | kg bw/day               | population  |              |
|   |                                  | DNEL      | Long term         | 0.54 mg/m <sup>3</sup>  |             | Systemic     |
|   |                                  | 5.122     | Inhalation        | 0.0 i iiig/iii          | population  | C you con mo |
|   |                                  | DNEL      | Long term Dermal  | 0.875 mg/               | Workers     | Systemic     |
|   |                                  | DINEL     | Long term Dermai  |                         | WUINEIS     | Systemic     |
|   |                                  | D. 151    |                   | kg bw/day               |             |              |
|   |                                  | DNEL      | Long term         | 3.09 mg/m <sup>3</sup>  | Workers     | Systemic     |
|   |                                  |           | Inhalation        |                         |             |              |
|   | 2-methylpropan-1-ol              | DNEL      | Long term         | 55 mg/m <sup>3</sup>    | General     | Systemic     |
|   |                                  |           | Inhalation        | · ·                     | population  |              |
|   |                                  | DNEL      | Long term         | 310 mg/m <sup>3</sup>   | Workers     | Systemic     |
|   |                                  |           | Inhalation        | o . o                   |             | - ,          |
|   |                                  | DNEL      | Long term         | 55 ma/m <sup>3</sup>    | General     | Local        |
|   |                                  | DINEL     |                   | 55 mg/m³                |             | Lucai        |
|   |                                  | DATE      | Inhalation        | 040 / 3                 | population  |              |
|   |                                  | DNEL      | Long term         | 310 mg/m <sup>3</sup>   | Workers     | Local        |
|   |                                  |           | Inhalation        |                         |             |              |
|   | benzyl alcohol                   | DNEL      | Long term Oral    | 4 mg/kg                 | General     | Systemic     |
|   | •                                |           | -                 | bw/day                  | population  |              |
|   |                                  | DNEL      | Long term Dermal  | 4 mg/kg                 | General     | Systemic     |
|   |                                  | DIVEL     | Long tom Bonna    | bw/day                  | population  | Cyclonic     |
|   |                                  | DNEL      | Longtorm          |                         | General     | Systemic     |
|   |                                  | DINEL     | Long term         | 5.4 mg/m <sup>3</sup>   |             | Systemic     |
|   |                                  |           | Inhalation        | - "                     | population  |              |
|   |                                  | DNEL      | Long term Dermal  | 8 mg/kg                 | Workers     | Systemic     |
|   |                                  |           |                   | bw/day                  |             |              |
|   |                                  | DNEL      | Short term Oral   | 20 mg/kg                | General     | Systemic     |
|   |                                  |           |                   | bw/day                  | population  |              |
|   |                                  | DNEL      | Short term Dermal | 20 mg/kg                | General     | Systemic     |
|   |                                  |           |                   | bw/day                  | population  | -,           |
|   |                                  | DNEL      | Long term         | 22 mg/m <sup>3</sup>    | Workers     | Systemic     |
|   |                                  | DIVLL     | Inhalation        | mg/m                    | TTOIROIG    | Systemio     |
|   |                                  | ראבי      |                   | 27 males 3              | Conoral     | Cuotomio     |
|   |                                  | DNEL      | Short term        | 27 mg/m³                | General     | Systemic     |
|   |                                  | - · · · · | Inhalation        | 40 "                    | population  |              |
|   |                                  | DNEL      | Short term Dermal | 40 mg/kg                | Workers     | Systemic     |
|   |                                  |           |                   | bw/day                  |             |              |
|   |                                  | DNEL      | Short term        | 110 mg/m <sup>3</sup>   | Workers     | Systemic     |
|   |                                  |           | Inhalation        | J                       |             |              |
|   | ethylbenzene                     | DMEL      | Long term         | 442 mg/m <sup>3</sup>   | Workers     | Local        |
|   | ,                                |           | Inhalation        | · · = · · · · · · · · · |             |              |
|   |                                  | DMEL      | Short term        | 001 ma/m3               | Workers     | Systemis     |
|   |                                  | DIVICE    |                   | 884 mg/m <sup>3</sup>   | MOIVEIS     | Systemic     |
|   |                                  | D         | Inhalation        | 4.0 "                   |             |              |
|   |                                  | DNEL      | Long term Oral    | 1.6 mg/kg               | General     | Systemic     |
|   |                                  |           |                   | bw/day                  | population  |              |
|   |                                  | DNEL      | Long term         | 15 mg/m³                | General     | Systemic     |
|   |                                  |           | Inhalation        | J                       | population  |              |
|   |                                  | DNEL      | Long term         | 77 mg/m³                | Workers     | Systemic     |
|   |                                  | ·         | Inhalation        | 9,                      |             | - , 5.5      |
|   |                                  | DNE       |                   | 190 ma/ka               | Workers     | Systemia     |
|   |                                  | DNEL      | Long term Dermal  | 180 mg/kg               | VVOINGIS    | Systemic     |
|   |                                  | האירי     | Ob 4 4            | bw/day                  | 14/         | 1 1          |
|   |                                  | DNEL      | Short term        | 293 mg/m <sup>3</sup>   | Workers     | Local        |
| ! |                                  |           | •                 |                         |             | l I          |

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

|                        |      | Inhalation       |                        |            |          |
|------------------------|------|------------------|------------------------|------------|----------|
| Propylidynetrimethanol | DNEL | Long term        | 3.3 mg/m <sup>3</sup>  | Workers    | Systemic |
|                        |      | Inhalation       |                        |            |          |
|                        | DNEL | Long term Oral   | 0.34 mg/               | General    | Systemic |
|                        |      |                  | kg bw/day              | population |          |
|                        | DNEL | Long term Dermal | 0.34 mg/               | General    | Systemic |
|                        |      |                  | kg bw/day              | population |          |
|                        | DNEL | Long term        | 0.58 mg/m <sup>3</sup> | General    | Systemic |
|                        |      | Inhalation       |                        | population |          |
|                        | DNEL | Long term Dermal | 0.94 mg/               | Workers    | Systemic |
|                        |      |                  | kg bw/day              |            |          |
|                        | DNEL | Long term        | 3.3 mg/m <sup>3</sup>  | Workers    | Systemic |
|                        |      | Inhalation       |                        |            |          |

# **PNECs**

| Product/ingredient name                    | Compartment Detail        | Value            | Method Detail |
|--|---------------------------|------------------|---------------|
| 2,2-bis[4(2,3-epoksipropoksi)fenil]-propan | Fresh water               | 0.006 mg/l       | -             |
|  | Marine                    | 0.0006 mg/l      | -             |
|  | Sewage Treatment          | 10 mg/l          | -             |
|  | Plant                     |                  |               |
|  | Fresh water sediment      | 0.996 mg/l       | -             |
|  | Marine water sediment     | 0.0996 mg/l      | -             |
|  | Soil                      | 0.196 mg/l       | -             |
| kylene                                     | Fresh water               | 0.327 mg/l       | -             |
|  | Marine                    | 0.327 mg/l       | -             |
|  | Sewage Treatment Plant    | 6.58 mg/l        | -             |
|  | Fresh water sediment      | 12.46 mg/kg dwt  | _             |
|  | Marine water sediment     | 12.46 mg/kg dwt  | _             |
|  | Soil                      | 2.31 mg/kg dwt   | _             |
| Phenol, methylstyrenated                   | Fresh water               | 14 µg/l          | _             |
| , <b>,,,</b>                               | Marine                    | 1.4 µg/l         | _             |
|  | Sewage Treatment          | 2.4 mg/l         | _             |
|  | Plant                     |                  |               |
|  | Fresh water sediment      | 52.9 mg/kg dwt   | -             |
|  | Marine water sediment     | 5.3 mg/kg dwt    | _             |
|  | Soil                      | 10.5 mg/kg dwt   | -             |
| 2-methylpropan-1-ol                        | Fresh water               | 0.4 mg/l         | -             |
| • • •                                      | Marine                    | 0.04 mg/l        | -             |
|  | Sewage Treatment<br>Plant | 10 mg/l          | -             |
|  | Fresh water sediment      | 1.52 mg/kg dwt   | -             |
|  | Marine water sediment     | 0.152 mg/kg dwt  | -             |
|  | Soil                      | 0.0699 mg/kg dwt | -             |
| penzyl alcohol                             | Fresh water               | 1 mg/l           | -             |
| •  | Marine                    | 0.1 mg/l         | -             |
|  | Sewage Treatment          | 39 mg/l          | -             |
|  | Plant                     |                  |               |
|  | Fresh water sediment      | 5.27 mg/kg dwt   | -             |
|  | Marine water sediment     | 0.527 mg/kg dwt  | -             |
|  | Soil                      | 0.456 mg/kg dwt  | -             |
| ethylbenzene                               | Fresh water               | 0.1 mg/l         | -             |
|  | Marine                    | 0.01 mg/l        | -             |
|  | Sewage Treatment<br>Plant | 9.6 mg/l         | -             |
|  | Fresh water sediment      | 13.7 mg/kg dwt   | -             |
|  | Soil                      | 2.68 mg/kg dwt   | -             |
|  | Secondary Poisoning       | 20 mg/kg         | _             |

# 8.2 Exposure controls

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

# 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Individual protection measures**

## **Hygiene measures**

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

## **Eye/face protection**

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Skin protection Hand protection

: There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), nitrile rubber (> 0.75 mm) May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

# **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to 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.

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# SECTION 9: Physical and chemical properties

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

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

**Appearance** 

Physical state : Liquid. Colour : Various

Characteristic. Odour **Odour threshold** : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

Lowest known value: 108°C (226.4°F) (2-methylpropan-1-ol). Weighted average:

238.6°C (461.5°F)

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: 0.8 - 13%

: Not applicable.

Flash point

: Closed cup: 25°C (77°F)

**Auto-ignition temperature** 

: Lowest known value: >385°C (>725°F) (Phenol, methylstyrenated).

**Decomposition temperature** 

: Not available. Not applicable.

**Viscosity** 

pН

: Not available.

Solubility(ies)

| Media      | Result      |  |
|------------|-------------|--|
| cold water | Not soluble |  |
| hot water  | Not soluble |  |

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure

Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol).

Weighted average: 0.3 kPa (2.25 mm Hg) (at 20°C)

Highest known value: 0.84 (ethylbenzene) Weighted average: 0.6compared

with butyl acetate

Not available.

Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted Vapour density

average: 8.53 (Air = 1)

**Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# **SECTION 10: Stability and reactivity**

Shelf life at 23 °C : 24 month(s)

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

| Product/ingredient name     | Result                 | Species    | Dose                    | Exposure |
|-----------------------------|------------------------|------------|-------------------------|----------|
| 2,2-bis[4                   | LD50 Dermal            | Rabbit     | 20 g/kg                 | -        |
| (2,3-epoksipropoksi)fenil]- |                        |            |                         |          |
| propan                      |                        |            |                         |          |
|                             | LD50 Oral              | Mouse      | 15600 mg/kg             | -        |
| xylene                      | LC50 Inhalation Vapour | Rat        | 20 mg/l                 | 4 hours  |
|                             | LD50 Oral              | Rat        | 4300 mg/kg              | -        |
|                             | TDLo Dermal            | Rabbit     | 4300 mg/kg              | -        |
| 2-methylpropan-1-ol         | LC50 Inhalation Vapour | Rat        | 19200 mg/m <sup>3</sup> | 4 hours  |
|                             | LD50 Dermal            | Rabbit     | 3400 mg/kg              | -        |
|                             | LD50 Oral              | Rat        | 2460 mg/kg              | -        |
| benzyl alcohol              | LD50 Oral              | Rat        | 1230 mg/kg              | -        |
| ethylbenzene                | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l               | 4 hours  |
| -                           | LD50 Dermal            | Rabbit     | >5000 mg/kg             | -        |
|                             | LD50 Oral              | Rat        | 3500 mg/kg              | -        |
| Propylidynetrimethanol      | LD50 Oral              | Rat        | 14000 mg/kg             | -        |

**Conclusion/Summary** 

: Not available.

# **Acute toxicity estimates**

| Product/ingredient name    | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|----------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Fenguard Midcoat 20 Comp A | 61500.0          | 24444.4           | N/A                            | 323.3                             | 75.0   |
| xylene                     | 4300             | 1100              | N/A                            | 20                                | N/A  |
| 2-methylpropan-1-ol        | 2460             | 3400              | N/A                            | N/A                               | N/A  |
| benzyl alcohol             | 1230             | N/A               | N/A                            | N/A                               | 1.5  |
| ethylbenzene               | 3500             | N/A               | N/A                            | 17.8                              | N/A  |
| propylidynetrimethanol     | 14000            | N/A               | N/A                            | N/A                               | N/A  |

# **Irritation/Corrosion**

| Product/ingredient name                     | Result                 | Species                            | Score | Exposure                 | Observation |
|---|------------------------|------------------------------------|-------|--------------------------|-------------|
| 2,2-bis[4(2,3-epoksipropoksi) fenil]-propan | Eyes - Severe irritant | Rabbit                             | -     | 24 hours 2<br>milligrams | -           |
|   | Skin - Mild irritant   | Rabbit                             | -     | 500<br>milligrams        | -           |
| xylene                                      | Eyes - Mild irritant   | Rabbit                             | -     | 87 milligrams            | -           |
|   | Skin - Mild irritant   | Rat                                | -     | 8 hours 60 microliters   | -           |
| Phenol, methylstyrenated                    | Skin - Mild irritant   | Mammal -<br>species<br>unspecified | -     | -                        | -           |
| 2-methylpropan-1-ol                         | Eyes - Irritant        | Mammal -<br>species<br>unspecified | -     | -                        | -           |
|   | Skin - Mild irritant   | Mammal -<br>species<br>unspecified | -     | -                        | -           |
| benzyl alcohol                              | Eyes - Mild irritant   | Mammal -<br>species<br>unspecified | -     | -                        | -           |

Conclusion/Summary

: Not available.

**Sensitisation** 

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Penguard Midcoat 20 Comp A

# **SECTION 11: Toxicological information**

| Product/ingredient name                     | Route of exposure | Species                      | Result      |
|---|-------------------|------------------------------|-------------|
| 2,2-bis[4(2,3-epoksipropoksi) fenil]-propan | skin              | Mammal - species unspecified | Sensitising |
| Phenol, methylstyrenated                    | skin              | Mammal - species unspecified | Sensitising |
| glycidyl ether of 3-alkyl phenol            | skin              | Mammal - species unspecified | Sensitising |

**Conclusion/Summary** 

**Mutagenicity** 

: Not available.

**Conclusion/Summary** 

: Not available.

Carcinogenicity

**Conclusion/Summary** 

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available. Specific target organ toxicity (single exposure)

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

## Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

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

**Information on likely routes**: Not available.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

: No known significant effects or critical hazards. Inhalation

: Causes skin irritation. May cause an allergic skin reaction. **Skin contact** 

: No known significant effects or critical hazards. Ingestion

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

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

pain or irritation watering redness

: No specific data. Inhalation

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

> irritation redness

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# **SECTION 11: Toxicological information**

Ingestion : No specific data.

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

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : No

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary

: Not available.

**General** 

: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

| Product/ingredient name                     | Result   | Species  | Exposure                                    |
|---|--|--|---|
| 2,2-bis[4(2,3-epoksipropoksi) fenil]-propan | Acute EC50 1.4 mg/l  | Daphnia  | 48 hours                                    |
|   | Acute LC50 3.1 mg/l<br>Chronic NOEC 0.3 mg/l   | Fish - pimephales promelas<br>Fish   | 96 hours<br>21 days                         |
| xylene                                      | Acute LC50 8500 μg/l Marine water  | Crustaceans - Palaemonetes pugio   | 48 hours                                    |
|   | Acute LC50 13400 μg/l Fresh water  | Fish - Pimephales promelas   | 96 hours                                    |
| 2-methylpropan-1-ol ethylbenzene            | Chronic NOEC 4000 µg/l Fresh water<br>Acute EC50 7700 µg/l Marine water<br>Acute EC50 2.93 mg/l<br>Acute LC50 4.2 mg/l | Daphnia - Daphnia magna<br>Algae - Skeletonema costatum<br>Daphnia<br>Fish | 21 days<br>96 hours<br>48 hours<br>96 hours |

**Conclusion/Summary**: This material is harmful to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name        | Aquatic half-life | Photolysis | Biodegradability   |
|--------------------------------|-------------------|------------|--------------------|
| 2,2-bis[4(2,3-epoksipropoksi)  | -                 | -          | Not readily        |
| fenil]-propan<br>xylene        | -                 | -          | Readily            |
| benzyl alcohol<br>ethylbenzene | -                 | -          | Readily<br>Readily |
| etryberizerie                  | -                 | -          | Reaulty            |

# 12.3 Bioaccumulative potential

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# **SECTION 12: Ecological information**

| Product/ingredient name                     | LogPow       | BCF         | Potential |
|---|--------------|-------------|-----------|
| 2,2-bis[4(2,3-epoksipropoksi) fenil]-propan | 2.64 to 3.78 | 31          | low       |
| xylene                                      | 3.12         | 8.1 to 25.9 | low       |
| Phenol, methylstyrenated                    | 3.627        | -           | low       |
| 2-methylpropan-1-ol                         | 1            | -           | low       |
| benzyl alcohol                              | 0.87         | <100        | low       |
| ethylbenzene                                | 3.6          | -           | low       |
| Propylidynetrimethanol                      | -0.47        | <1          | low       |

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

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

: Yes.

# **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

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

# **Hazardous waste**

# **Waste list**

| Waste code | Waste code definition   |
|------------|---|
| 08 01 11*  | Waste paint and varnish containing organic solvents or other dangerous substances |

### **Packaging**

**Methods of disposal** 

: 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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# **SECTION 14: Transport information**

|                                    | ADR/RID | ADN    | IMDG   | IATA   |
|------------------------------------|---------|--------|--------|--------|
| 14.1 UN number                     | UN1263  | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name       | Paint   | Paint  | Paint  | Paint  |
| 14.3 Transport<br>hazard class(es) | 3       | 3      | 3      | 3      |
| 14.4 Packing group                 | III     | III    | III    | III    |
| 14.5<br>Environmental<br>hazards   | No.     | Yes.   | No.    | No.    |

# **Additional information**

**ADR/RID** : Hazard identification number 30

> **Special provisions** 640E Tunnel code (D/E)

ADR/RID: Viscous substance. Not goods of class 3, ref. 2.2.3.1.5 (only applicable

to receptacles < 450 litre capacity).

**ADN** The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

**IMDG** : Emergency schedules F-E, S-E

MDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG

Code (only applicable to receptacles < 450 litre capacity).

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO

instruments

: Not available.

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Turkey Regulation No. 30105, KKDIK** Annex 14 - List of substances subject to authorization

Annex 14

None of the components are listed.

Substances of very high concern

None of the components are listed.

**Annex 17 - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Ozone depleting substances

Not listed.

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# SECTION 15: Regulatory information

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

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

# **Danger criteria**

#### Category

P<sub>5</sub>c

#### **EU** regulations

#### EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

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

Not listed.

#### **Persistent Organic Pollutants**

Not listed.

#### **International regulations**

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

Not listed.

#### **Montreal Protocol**

Not listed.

## **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

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

Not listed.

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

Not listed.

# 15.2 Chemical safety

required.

assessment

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

EUH statement = SEA-specific Hazard statement

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

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

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# **SECTION 16: Other information**

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Irrit. 2, H319      | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Aquatic Chronic 3, H412 | Calculation method    |

#### Full text of abbreviated H statements

| H225   | Highly flammable liquid and vapour.                                      |
|--------|--|
| H226   | Flammable liquid and vapour.   |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                            |
| H312   | Harmful in contact with skin.  |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                     |
| H318   | Causes serious eye damage.   |
| H319   | Causes serious eye irritation.   |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.                                       |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373   | May cause damage to organs through prolonged or repeated exposure.       |
| H411   | Toxic to aquatic life with long lasting effects.                         |
| H412   | Harmful to aquatic life with long lasting effects.                       |

## Full text of classifications [SEA/GHS]

| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
|-------------------|---|
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
|                   |   |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| 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   |

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#### **Notice to reader**

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

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# Conforms to regulation No. 30105, Turkey KKDIK, Annex 2

Penguard Midcoat 20 Comp A

# **SECTION 16: Other information**

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

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