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

## SAFETY DATA SHEET



## Jotun Super Durable 2003

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

| 1.1 Product identifier        |                            |
|-------------------------------|----------------------------|
| Product name                  | : Jotun Super Durable 2003 |
| Product code                  | : 37269                    |
| Product type                  | : Powder coating.          |
| Other means of identification | : Not available.           |

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

Use in coatings - Industrial use

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

JOTUN BOYA SAN. VE TİC. A.Ş. Çerkezköy Organize Sanayi Şubesi G.O.P MAHALLESI ULUSOY CAD. NO. 8 CERKEZKOY 59500 TEKIRDAG TURKEY

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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

Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 1B, H340 STOT RE 2, H373 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

Hazard pictograms



| Signal word   | : | Danger.  |
|---|---|--|
| Hazard statements   | : | <ul> <li>H302 - Harmful if swallowed.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H340 - May cause genetic defects.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>  |
| Precautionary statements  |   |  |
| General   | 1 | Not applicable.  |
| Prevention  | : | <ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe dust.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>  |
| Response  | : | <ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul> |
| Storage   | : | Not applicable.  |
| Disposal  | : | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Hazardous ingredients   | : | 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione<br>Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer,<br>caprolactam-blocked<br>N,N',N'''-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethylpiperidin-4-yl)amino)<br>triazin-2-yl)-4,7-diazadecane-1,10-diamine<br>zinc di(benzothiazol-2-yl) disulphide   |
| Supplemental label elements   | : | Not applicable.  |
| Annex 17 - Restrictions on<br>the manufacture, placing<br>on the market and use of<br>certain dangerous<br>substances, mixtures and<br>articles | : | Restricted to professional users.  |

Date of revision

## **SECTION 2: Hazards identification**

| Special packaging requirem                                    | en | <u>ts</u>       |
|---|----|-----------------|
| Containers to be fitted<br>with child-resistant<br>fastenings | :  | Not applicable. |
| Tactile warning of danger                                     | :  | Not applicable. |

#### 2.3 Other hazards

| Product meets the criteria 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                     | : None known.   |

not result in classification

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

| 3.2 Mixtures  | : Mixture                         |      |   |         |
|---|-----------------------------------|------|---|---------|
| Product/ingredient name   | Identifiers                       | %    | SEA: RG10/12/2020-31330   | Туре    |
| barium sulfate  | EC: 231-784-4<br>CAS: 7727-43-7   | ≤10  | Not classified.   | [2]     |
| 1,3,5-tris(oxiranylmethyl)<br>-1,3,5-triazine-2,4,6(1H,3H,<br>5H)-trione  | EC: 219-514-3<br>CAS: 2451-62-9   | <10  | Acute Tox. 3, H301<br>Acute Tox. 3, H331<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 1B, H340<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412            | [1] [2] |
| titanium dioxide  | EC: 236-675-5<br>CAS: 13463-67-7  | ≤3   | Not classified.   | [2]     |
| Cyclohexane, 5-isocyanato-<br>1-(isocyanatomethyl)<br>-1,3,3-trimethyl-,<br>homopolymer, caprolactam-<br>blocked                                      | CAS: 127184-53-6                  | ≤3   | STOT RE 1, H372 (inhalation)  | [1]     |
| 3,9-bis(2,4-di-tert-<br>butylphenoxy)<br>-2,4,8,10-tetraoxa-<br>3,9-diphosphaspiro[5.5]<br>undecane   | EC: 247-952-5<br>CAS: 26741-53-7  | ≤1   | Aquatic Chronic 1, H410 (M=1)   | [1]     |
| N,N',N'',N'''-tetrakis(4,6-bis<br>(butyl-(N-methyl-<br>2,2,6,6-tetramethylpiperidin-<br>4-yl)amino)triazin-2-yl)<br>-4,7-diazadecane-<br>1,10-diamine | EC: 401-990-0<br>CAS: 106990-43-6 | <1   | Skin Sens. 1, H317<br>STOT RE 2, H373 (lymphatic system)<br>Aquatic Chronic 2, H411   | [1]     |
| zinc di(benzothiazol-2-yl)<br>disulphide  | EC: 205-840-3<br>CAS: 155-04-4    | ≤0.3 | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br>See Section 16 for the full text of the H<br>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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

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

#### 4.1 Description of first aid measures

| Eye contact                | : | Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.  |
|----------------------------|---|---|
| Inhalation                 | : | Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact               | : | Get medical attention immediately. Call a poison center or physician. Wash with<br>plenty of soap and water. Remove contaminated clothing and shoes. Wash<br>contaminated clothing thoroughly with water before removing it, or wear gloves.<br>Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly<br>by a physician. In the event of any complaints or symptoms, avoid further exposure.<br>Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| Ingestion                  | : | Get medical attention immediately. Call a poison center or physician. Wash out<br>mouth with water. Remove dentures if any. If material has been swallowed and the<br>exposed person is conscious, give small quantities of water to drink. Stop if the<br>exposed person feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the head should<br>be kept low so that vomit does not enter the lungs. Chemical burns must be treated<br>promptly by a physician. Never give anything by mouth to an unconscious person.<br>If unconscious, place in recovery position and get medical attention immediately.<br>Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or<br>waistband.  |
| Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.   |

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

| <u>'S</u>  |
|--|
| : Causes serious eye damage.   |
| : No known significant effects or critical hazards.  |
| : May cause an allergic skin reaction.   |
| : Harmful if swallowed.  |
| oms  |
| : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| : No specific data.  |
| : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
|  |

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|--|---|
| <b>SECTION 4: First aid</b>                                | measures  |
| Ingestion  | : Adverse symptoms may include the following: stomach pains   |
| 4.3 Indication of any immedi                               | ate medical attention and special treatment needed  |
| Notes to physician   | : In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours.  |
| Specific treatments  | : No specific treatment.  |
| <b>SECTION 5: Firefigh</b>                                 | ting measures   |
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : Use an extinguishing agent suitable for the surrounding fire.   |
| Unsuitable extinguishing media                             | : None known.   |
| 5.2 Special hazards arising f                              | rom the substance or mixture  |
| Hazards from the substance or mixture                      | <ul> <li>This material is harmful to aquatic life with long lasting effects. Fire water<br/>contaminated with this material must be contained and prevented from being<br/>discharged to any waterway, sewer or drain.</li> </ul>   |
|  | Fine dust clouds may form explosive mixtures with air.  |
| Hazardous thermal<br>decomposition products                | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>sulfur oxides<br>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.   |
| Special protective<br>equipment for fire-fighters          | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel | : | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Provide adequate ventilation.<br>Wear appropriate respirator when ventilation is inadequate. Put on appropriate<br>personal protective equipment. |
|--------------------------------|---|---|
| For emergency responders       | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |
| 6.2 Environmental precautions  | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful<br>to the environment if released in large quantities.   |

6.3 Methods and material for containment and cleaning up

| <b>SECTION 6: Accidenta</b> | I release measures |
|-----------------------------|--------------------|
|-----------------------------|--------------------|

| Small spill                     | : Move containers from spill area. Avoid dust generation. Do not dry sweep.<br>Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled<br>waste container. Place spilled material in a designated, labeled waste container.<br>Dispose of via a licensed waste disposal contractor.                                |
|---------------------------------|--|
| Large spill                     | : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| 6.4 Reference to other sections | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

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

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

#### 7.1 Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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  |

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

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.

information on hygiene measures.

See Technical Data Sheet / packaging for further information.

#### 7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

- : Not available.
- ic : Not available.

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

#### 8.1 Control parameters

Dust Limit : 10 mg/m<sup>3</sup> (TWA of total inhalable dust) and 4 mg/m<sup>3</sup> (TWA of respirable) Occupational exposure limits

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

| Product/ingredient name  | Exposure limit values   |
|--|---|
| <mark>ቓ</mark> arium sulfate   | ACGIH TLV (United States, 7/2023).  |
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6<br>(1H,3H,5H)-trione | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction<br>ACGIH TLV (United States, 7/2023). [1,3,5-Triglycidyl-s-<br>triazinetrione] |
| titanium dioxide   | TWA: 0.05 mg/m³ 8 hours.<br><b>EU OEL (Europe).</b><br>TWA: 5 mg/m³ 8 hours.  |

#### **Biological exposure indices**

No exposure indices known.

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

#### **DNELs/DMELs**

| Product/ingredient name                    | Туре   | Exposure          | Value                  | Population | Effects   |
|--|--------|-------------------|------------------------|------------|-----------|
| barium sulfate                             | DNEL   | Long term         | 10 mg/m <sup>3</sup>   | Workers    | Local     |
|  |        | Inhalation        | Ū                      |            |           |
|  | DNEL   | Long term         | 10 mg/m³               | General    | Systemic  |
|  |        | Inhalation        | U                      | population | 1         |
|  | DNEL   | Long term         | 10 mg/m³               | Workers    | Systemic  |
|  |        | Inhalation        | 5                      |            | ,         |
|  | DNEL   | Long term Oral    | 13000 mg/              | General    | Systemic  |
|  |        | 5                 | kg bw/day              | population | 5         |
| 1,3,5-tris(oxiranylmethyl)                 | DMEL   | Short term        | 0.002 mg/              | General    | Systemic  |
| -1,3,5-triazine-2,4,6(1H,3H,5H)-<br>trione |        | Inhalation        | m <sup>3</sup>         | population | ,         |
| linone                                     | DMEL   | Long term         | 0.005 mg/              | General    | Systemic  |
|  | DIVILL | Inhalation        | m <sup>3</sup>         | population | Cyclonno  |
|  | DNEL   | Short term        | 0.01 mg/m <sup>3</sup> | General    | Local     |
|  | DIVLL  | Inhalation        | 0.01 mg/m              | population | Local     |
|  | DNEL   | Short term Dermal | 0.016 mg/              | General    | Systemic  |
|  | DIVLL  | onort term Derma  | kg bw/day              | population | Oysternie |
|  | DNEL   | Short term Dermal | 0.04 mg/               | General    | Local     |
|  | DIVLL  | onort term Derma  | cm <sup>2</sup>        | population | Local     |
|  | DNEL   | Long term Oral    | 0.043 mg/              | General    | Systemic  |
|  | DILLE  | Long tonn ordi    | kg bw/day              | population | Cyclonno  |
|  | DNEL   | Long term Dermal  | 0.043 mg/              | General    | Systemic  |
|  | DILLE  | Long tonin Donnai | kg bw/day              | population | Cyclonno  |
|  | DMEL   | Short term        | 0.052 mg/              | Workers    | Systemic  |
|  | DIVILL | Inhalation        | m <sup>3</sup>         |            | Cyclonno  |
|  | DMEL   | Long term         | 0.052 mg/              | Workers    | Systemic  |
|  | DIVILL | Inhalation        | m <sup>3</sup>         |            | Cyclonno  |
|  | DMEL   | Short term Oral   | 0.096 mg/              | General    | Systemic  |
|  | DIVILL | onore torm or a   | kg bw/day              | population | Cyclonno  |
|  | DNEL   | Short term        | $0.1 \text{ mg/m}^3$   | Workers    | Local     |
|  | 5.122  | Inhalation        | 0.1 mg/m               |            | Local     |
|  | DNEL   | Short term Dermal | 0.16 mg/               | Workers    | Systemic  |
|  |        |                   | kg bw/day              |            | - ,       |
|  | DNEL   | Short term Dermal | 0.43 mg/               | Workers    | Local     |
|  |        |                   | cm <sup>2</sup>        |            |           |
|  | DNEL   | Long term Dermal  | 0.43 mg/               | Workers    | Systemic  |
|  |        |                   | kg bw/day              |            |           |
| titanium dioxide                           | DNEL   | Long term         | 28 µg/m <sup>3</sup>   | General    | Local     |
|  | 1      | 1 -               |                        |            | 1         |

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# SECTION 8: Exposure controls/personal protection

| SECTION 8: Exposure cont  | rols/p | ersonal prote                         | ction                       |                       |          |
|---|--------|---------------------------------------|-----------------------------|-----------------------|----------|
|   | DNEL   | Inhalation<br>Long term<br>Inhalation | 170 µg/m³                   | population<br>Workers | Local    |
| Cyclohexane, 5-isocyanato-1-<br>(isocyanatomethyl)-1,3,3-trimethyl-,  | DNEL   | Long term<br>Inhalation               | 0.013 mg/<br>m³             | General<br>population | Local    |
| homopolymer, caprolactam-blocked  | DNEL   | Short term<br>Inhalation              | 0.065 mg/<br>m³             | General<br>population | Local    |
|   | DNEL   | Long term<br>Inhalation               | 0.075 mg/<br>m³             | Workers               | Local    |
|   | DNEL   | Short term<br>Inhalation              | 0.375 mg/<br>m³             | Workers               | Local    |
| 3,9-bis(2,4-di-tert-butylphenoxy)<br>-2,4,8,10-tetraoxa-<br>3,9-diphosphaspiro[5.5]undecane   | DNEL   | Long term Oral                        | 0.39 mg/<br>kg bw/day       | General<br>population | Systemic |
|   | DNEL   | Long term Dermal                      | 0.39 mg/<br>kg bw/day       | General<br>population | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 0.68 mg/m <sup>3</sup>      | General<br>population | Systemic |
|   | DNEL   | Long term Dermal                      | 0.78 mg/<br>kg bw/day       | Workers               | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 2.75 mg/m <sup>3</sup>      | Workers               | Systemic |
| N,N',N",N"'-tetrakis(4,6-bis(butyl-(N-<br>methyl-2,2,6,6-tetramethylpiperidin-<br>4-yl)amino)triazin-2-yl)<br>-4,7-diazadecane-1,10-diamine | DNEL   | Long term Oral                        | 0.025 mg/<br>kg bw/day      | General<br>population | Systemic |
|   | DNEL   | Long term Dermal                      | 0.16 mg/<br>kg bw/day       | Workers               | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 0.176 mg/<br>m <sup>3</sup> | Workers               | Systemic |
|   | DNEL   | Long term Dermal                      | 0.25 mg/<br>kg bw/day       | General<br>population | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 0.34 mg/m <sup>3</sup>      | General<br>population | Systemic |
| zinc di(benzothiazol-2-yl) disulphide   | DNEL   | Long term Oral                        | 0.6 mg/kg<br>bw/day         | General<br>population | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 1 mg/m³                     | General<br>population | Systemic |
|   | DNEL   | Long term Dermal                      | 1.2 mg/kg<br>bw/day         | General<br>population | Systemic |
|   | DNEL   | Long term Dermal                      | 3.3 mg/kg<br>bw/day         | Workers               | Systemic |
|   | DNEL   | Long term<br>Inhalation               | 5.9 mg/m <sup>3</sup>       | Workers               | Systemic |

#### **PNECs**

No PNECs available

| 8.2 Exposure controls<br>Appropriate engineering<br>controls | : If user operations generate dust, fumes, gas, vapour or mist, 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 measu                                  | res  |
| 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. |

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

| Eye/face protection             | : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.   |
|---------------------------------|--|
| Skin protection                 |  |
| Hand protection                 | <ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.<br/>The breakthrough time must be greater than the end use time of the product.<br/>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.<br/>Gloves should be replaced regularly and if there is any sign of damage to the glove material.<br/>Always ensure that gloves are free from defects and that they are stored and used correctly.<br/>The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.<br/>Barrier creams may help to protect the exposed areas of the skin but should not be</li> </ul> |
|                                 | applied once exposure has occurred.  |
|                                 | Wear suitable gloves tested to ISO 374-1:2016.<br>May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA) (> 0.3<br>mm)  |
|                                 | Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm),<br>neoprene (> 0.35 mm), PVC (> 0.5 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.  |
| Other skin protection           | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>  |
| Respiratory protection          | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.   |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to<br>ensure they comply with the requirements of environmental protection legislation.<br>In some cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.  |

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

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

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

| <u>Appearance</u>                          |                   |
|--|-------------------|
| Physical state                             | : Solid. Powder.  |
| Colour                                     | : Various.        |
| Odour                                      | : Odourless.      |
| Odour threshold                            | : Not applicable. |
| Melting point (dust)                       | : 85 - 115 °C     |
| Initial boiling point and<br>boiling range | : Not applicable. |

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## SECTION 9: Physical and chemical properties

| Flammability (solid, gas)              | : 1              | Fine dust clouds may form explosive mixtures with air. |
|--|------------------|--|
| Lower explosion limit (dust)           | : :              | 30 g/m <sup>3</sup>                                    |
| Minimum ignition energy (mJ)           | : 1              | 10 - 30 (EN 13821)                                     |
| Flash point                            | 1                |  |
|  | I                | Not applicable.  |
| Auto-ignition temperature              | : :              | > 400°C  |
| Decomposition temperature              | : :              | >230°C   |
| рН                                     | : 1              | Not applicable.  |
| Viscosity                              | : 1              | Not applicable.  |
| Solubility(ies)                        | :                |  |
| Media                                  |                  | Result   |
| cold water                             |                  | Not soluble  |
| hot water                              |                  | Not soluble  |
| Partition coefficient: n-octanol water | / : I            | Not applicable.  |
| Vapour pressure                        | : 1              | Not applicable.  |
|  | I                | Not applicable.  |
| Density                                | : 1              | 1.2 to 1.9 g/cm <sup>3</sup>                           |
| Vapour density                         | : 1              | Not applicable.  |
| Explosive properties                   | : 1              | Not available.   |
| Oxidising properties                   | : Not available. |  |
| Particle characteristics               |                  |  |
|  |                  |  |

#### 9.2 Other information

**Median particle size** 

No additional information.

#### SECTION 10: Stability and reactivity **10.1 Reactivity** : Fine dust clouds may form explosive mixtures with air. **10.2 Chemical stability** : The product is stable. **10.3 Possibility of** : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 10.4 Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. 10.5 Incompatible materials : No specific data. **10.6 Hazardous** ŝ, Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

: Not available.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects **Acute toxicity** 

## **SECTION 11: Toxicological information**

| Product/ingredient name  | Result    | Species | Dose      | Exposure |
|--|-----------|---------|-----------|----------|
| 1,3,5-tris(oxiranylmethyl)<br>-1,3,5-triazine-2,4,6(1H,3H,<br>5H)-trione | LD50 Oral | Rat     | 138 mg/kg | -        |
| zinc di(benzothiazol-2-yl)<br>disulphide                                 | LD50 Oral | Rat     | 540 mg/kg | -        |

**Conclusion/Summary** : Not available.

Acute toxicity estimates

**Product/ingredient name** Oral (mg/ **Dermal** Inhalation Inhalation Inhalation (vapours) (dusts (mg/kg) (gases) kg) and mists) (ppm) (mg/l) (mg/l) 42.5 Jotun Super Durable 2003 1418.3 N/A N/A N/A 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1h,3h, 100 N/A N/A 3 N/A 5h)-trione

#### Irritation/Corrosion

| Product/ingredient name   | Result                 | Species                            | Score | Exposure          | Observation |
|---|------------------------|------------------------------------|-------|-------------------|-------------|
| 1,3,5-tris(oxiranylmethyl)<br>-1,3,5-triazine-2,4,6(1H,3H,<br>5H)-trione                            | Eyes - Irritant        | Mammal -<br>species<br>unspecified | -     | -                 | -           |
|   | Eyes - Severe irritant | Rabbit                             | -     | 100<br>milligrams | -           |
| titanium dioxide  | Skin - Mild irritant   | Human                              | -     | 72 hours          | -           |
| 3,9-bis(2,4-di-tert-<br>butylphenoxy)<br>-2,4,8,10-tetraoxa-<br>3,9-diphosphaspiro[5.5]<br>undecane | Skin - Severe irritant | Rabbit                             | -     | 0.5 Grams         | -           |

#### **Conclusion/Summary**

: Not available.

#### **Sensitisation**

| Product/ingredient name   | Route of exposure        | Species                         | Result      |
|---|--------------------------|---------------------------------|-------------|
| 1,3,5-tris(oxiranylmethyl)<br>-1,3,5-triazine-2,4,6(1H,3H,<br>5H)-trione  | skin                     | Mammal - species<br>unspecified | Sensitising |
| N,N',N",N"'-tetrakis(4,6-bis<br>(butyl-(N-methyl-<br>2,2,6,6-tetramethylpiperidin-<br>4-yl)amino)triazin-2-yl)<br>-4,7-diazadecane-<br>1,10-diamine | skin                     | Mammal - species<br>unspecified | Sensitising |
| zinc di(benzothiazol-2-yl)<br>disulphide  | skin                     | Mammal - species<br>unspecified | Sensitising |
| Conclusion/Summary  | : Not available.         | ·                               |             |
| Mutagenicity  |                          |                                 |             |
| Conclusion/Summary  | : Not available.         |                                 |             |
| Carcinogenicity   |                          |                                 |             |
| Conclusion/Summary  | : Not available.         |                                 |             |
| Reproductive toxicity   |                          |                                 |             |
| Conclusion/Summary  | : Not available.         |                                 |             |
| <b>Teratogenicity</b>   |                          |                                 |             |
| Conclusion/Summary  | : Not available.         |                                 |             |
| Specific target organ toxicit   | <u>y (single exposur</u> | <u>e)</u>                       |             |
| Not available   |                          |                                 |             |

Not available.

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## **SECTION 11: Toxicological information**

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

| Product/ingredient name   | Category   | Route of exposure | Target organs    |
|---|------------|-------------------|------------------|
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-<br>trione  | Category 2 | -                 | -                |
| Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)<br>-1,3,3-trimethyl-, homopolymer, caprolactam-blocked                                   | Category 1 | inhalation        | -                |
| N,N',N",N"'-tetrakis(4,6-bis(butyl-(N-methyl-<br>2,2,6,6-tetramethylpiperidin-4-yl)amino)triazin-2-yl)<br>-4,7-diazadecane-1,10-diamine | Category 2 | -                 | lymphatic system |

#### **Aspiration hazard**

Not available.

#### Information on likely routes : Not available. of exposure

Potential acute health effects

| Eye contact  | : Causes serious eye damage.                        |
|--------------|---|
| Inhalation   | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction.              |
| Ingestion    | : Harmful if swallowed.                             |

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

| Eye contact  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
|--------------|--|
| Inhalation   | : No specific data.  |
| Skin contact | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| Ingestion    | : Adverse symptoms may include the following: stomach pains  |

#### 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** : 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 : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : May cause genetic defects. **Reproductive toxicity** : No known significant effects or critical hazards.

Date of revision

:02.10.2023

## **SECTION 11: Toxicological information**

#### **Other information**

: Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name   | Result  | Species                                       | Exposure            |
|---|---|---|---------------------|
| titanium dioxide  | Acute LC50 3 mg/l Fresh water                 | Crustaceans - Ceriodaphnia<br>dubia - Neonate | 48 hours            |
|   | Acute LC50 6.5 mg/l Fresh water               | Daphnia - Daphnia pulex -<br>Neonate          | 48 hours            |
|   | Acute LC50 >1000000 μg/l Marine<br>water      | Fish - Fundulus heteroclitus                  | 96 hours            |
| 3,9-bis(2,4-di-tert-<br>butylphenoxy)<br>-2,4,8,10-tetraoxa-<br>3,9-diphosphaspiro[5.5]<br>undecane | Acute EC10 15.4 mg/l                          | Algae   | 72 hours            |
|   | Acute EC50 97 mg/l                            | Algae   | 72 hours            |
|   | Acute LC50 70.7 mg/l                          | Fish  | 96 hours            |
| zinc di(benzothiazol-2-yl)<br>disulphide  | Chronic NOEC 0.1 mg/l<br>Acute EC50 0.71 mg/l | Daphnia<br>Daphnia                            | 21 days<br>48 hours |
| •   | Acute LC50 0.73 mg/l                          | Fish  | 96 hours            |
|   | Chronic NOEC 0.041 mg/l                       | Fish  | 89 days             |
| Conclusion/Summary  | : This material is harmful to aquatic I       | ife with long lasting effects.                |                     |

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

| Product/ingredient name  | LogPow | BCF | Potential |
|--|--------|-----|-----------|
| 1,3,5-tris(oxiranylmethyl)<br>-1,3,5-triazine-2,4,6(1H,3H,<br>5H)-trione   | -0.8   | -   | low       |
| N,Ń',N",N"-tetrakis(4,6-bis<br>(butyl-(N-methyl-<br>2,2,6,6-tetramethylpiperidin-<br>4-yl)amino)triazin-2-yl)<br>-4,7-diazadecane-<br>1,10-diamine | -0.94  | -   | low       |
| zinc di(benzothiazol-2-yl)<br>disulphide   | 5.02   | <8  | low       |

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

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

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

## **SECTION 13: Disposal considerations**

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

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

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

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| <u>Packaging</u>    |   |
|---------------------|---|
| Methods of disposal | <ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste<br/>packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible.</li> </ul>  |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

Waste paint and varnish containing organic solvents or other dangerous substances

## **SECTION 14: Transport information**

|                                    | ADR/RID        | ADN            | IMDG           | ΙΑΤΑ           |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number                     | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper<br>shipping name    | -              | -              | -              | -              |
| 14.3 Transport<br>hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing<br>group              | -              | -              | -              | -              |
| 14.5<br>Environmental<br>hazards   | No.            | No.            | No.            | No.            |

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 : Not available. according to IMO instruments

## 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

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

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

Annex 17 - Restrictions : Restricted to professional users.

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

#### **Ozone depleting substances**

Not listed.

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

This product is not controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

#### **EU regulations**

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

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

Annex XIV

None of the components are listed.

#### Substances of very high concern

| Intrinsic property | Ingredient name   |           |            | Date of revision |
|--------------------|---|-----------|------------|------------------|
| Mutagen            | 1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazinane-<br>2,4,6-trione | Candidate | ED/87/2012 | 18.06.2012       |

Annex XVII - Restrictions : Restricted to professional users.

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**

## **SECTION 15: Regulatory information**

Not listed.

# **15.2 Chemical safety assessment**

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

## **SECTION 16: Other information**

| Indicates information t    | hat has changed from previously issued version.  |
|----------------------------|--|
| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate<br>EUH statement = SEA-specific Hazard statement<br>N/A = Not available<br>PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>SGG = Segregation Group<br>vPvB = Very Persistent and Very Bioaccumulative |
|                            |  |

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

| Classification          | Justification      |
|-------------------------|--------------------|
| Acute Tox. 4, H302      | Calculation method |
| Eye Dam. 1, H318        | Calculation method |
| Skin Sens. 1, H317      | Calculation method |
| Muta. 1B, H340          | Calculation method |
| STOT RE 2, H373         | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

#### Full text of abbreviated H statements

| H301 | Toxic if swallowed.  |
|------|--|
| H302 | Harmful if swallowed.  |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.   |
| H331 | Toxic if inhaled.  |
| H340 | May cause genetic defects.   |
| H372 | Causes damage to organs through prolonged or repeated exposure.    |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.  |
| H410 | Very toxic to aquatic life with long lasting effects.              |
| H411 | Toxic to aquatic life with long lasting effects.                   |
| H412 | Harmful to aquatic life with long lasting effects.                 |

#### Full text of classifications [SEA/GHS]

|                        | 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                  |
| Muta. 1B               | GERM CELL MUTAGENICITY - Category 1B                            |
| Skin Sens. 1           | SKIN SENSITISATION - Category 1                                 |
| STOT RE 1              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| Date of printing       | : 22.02.2024  |
| Date of issue/ Date of | : 22.02.2024  |
| revision               |   |
| Date of previous issue | e : 02.01.2024  |
| Version                | : 1.02  |
| Contact information o  | f certified author  |
|                        |   |

## **SECTION 16: Other information**

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