

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

| 1.1 Product identifier | |
|-------------------------------|------------------------------------|
| Product name | : OptiPro Universal Topcoat Comp B |
| Product code | : 50946 |
| Product description | : Hardener. |
| Product type | : Liquid. |
| 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 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 Original preparation date : 28.06.2023

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

: Mixture

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

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336

Product definition

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

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

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

2.2 Label elements

SECTION 2: Hazards identification

| Hazard pictograms | : | |
|---|----|---|
| Signal word | : | Warning. |
| Hazard statements | : | H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. |
| Precautionary statements | | |
| General | 1 | Not applicable. |
| Prevention | : | P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapour. |
| Response | : | P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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. |
| Storage | 4 | P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | : | n-butyl acetate Hexamethylene diisocyanate, oligomers hexamethylene diisocyanate |
| Supplemental label elements | : | Contains isocyanates. May produce an allergic reaction. |
| Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
| Special packaging requirem | er | <u>its</u> |
| Containers to be fitted with child-resistant 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 not result in classification | : | None known. |
| | | |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name | Identifiers | % | SEA: RG10/12/2020-31330 | Туре |
|--|--|-----------|--|---------|
| n-butyl acetate | EC: 204-658-1 CAS: 123-86-4 | ≥50 - ≤75 | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] [2] |
| Hexamethylene diisocyanate, oligomers | EC: 500-060-2 CAS: 28182-81-2 | ≥25 - ≤50 | Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 | [1] |
| 2-methoxy-1-methylethyl acetate | EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] [2] |
| xylene | EC: 215-535-7 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] |
| ethylbenzene | EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| hexamethylene diisocyanate | EC: 212-485-8 CAS: 822-06-0 | ≤0.3 | Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | [1] [2] |

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

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 if irritation occurs. | | | | |
| Inhalation | : 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. Get medical attention. If necessary, call a poison center or physician. 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. | | | | |

| SECTION 4: First aid measure | es |
|------------------------------|----|
|------------------------------|----|

| 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 necessary, call a poison center or physician. 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. 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

| 4.2 most important syn | iptoms and chects, both acute and delayed |
|--------------------------|---|
| Potential acute health | <u>effects</u> |
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/ | symptoms |
| Eye contact | : No specific data. |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| 4.3 Indication of any in | mediate medical attention and special treatment needed |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

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. |
|---|---|
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
| 5.3 Advice for firefighters | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective 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, pro | ote | ctive 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). |
| 6.3 Methods and material for | со | ntainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and |

explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill 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.

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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

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

See Technical Data Sheet / packaging for further information.

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 solutions
- : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Exposure limit values | | | | | |
|--|--|--|--|--|--|
| EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. | | | | | |
| TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 275 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m ³ 15 minutes. | | | | | |
| | | | | | |

SECTION 8: Exposure controls/personal protection

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|----------------------------|---|
| | STEL: 100 ppm 15 minutes. |
| xylene | TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed |
| | isomers)] Absorbed through skin. |
| | TWA: 221 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| ethylbenzene | TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. |
| | TWA: 442 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| | STEL: 884 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| hexamethylene diisocyanate | ACGIH TLV (United States, 1/2023). |
| | TWA: 0.005 ppm 8 hours. |
| | TWA: 0.03 mg/m ³ 8 hours. |
| hexamethylene diisocyanate | TWA: 0.005 ppm 8 hours. |

Biological exposure indices

No exposure indices known.

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

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-------------------------|---------|---------------------------|-----------------------|-------------|---------------|
| -butyl acetate | DNEL | Short term | 960 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Short term | 960 mg/m³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term | 480 mg/m³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term | 480 mg/m³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 859.7 mg/ | General | Systemic |
| | | Inhalation | m³ | population | |
| | | | | [Consumers] | |
| | DNEL | Short term | 859.7 mg/ | General | Local |
| | | Inhalation | m³ | population | |
| | | | | [Consumers] | |
| | DNEL | Long term | 102.34 mg/ | General | Systemic |
| | | Inhalation | m³ | population | |
| | | | | [Consumers] | |
| | DNEL | Long term | 102.34 mg/ | General | Local |
| | | Inhalation | m³ | population | |
| | | | | [Consumers] | |
| | DNEL | Long term Oral | 2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Oral | 2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 3.4 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Dermal | 6 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 7 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Short term Dermal | 11 mg/kg | Workers | Systemic |
| of revision : 29. | 11.2023 | Original preparation date | : 28.06.20 | | /ersion :1.02 |

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| | | | bw/day | | |
|---------------------------------|-------|-------------------------|------------------------|---------------------------|-----------|
| | DNEL | Long term | 12 mg/m ³ | General | Systemic |
| | | Inhalation | 0 | population | , |
| | DNEL | Long term | 35.7 mg/m ³ | General | Local |
| | | Inhalation | g, | population | |
| | DNEL | Long term | 48 mg/m³ | Workers | Systemic |
| | | Inhalation | . eg, | | -) |
| | DNEL | Short term | 300 mg/m ³ | General | Local |
| | DITEE | Inhalation | ooo mg/m | population | Loodi |
| | DNEL | Short term | 300 mg/m ³ | General | Systemic |
| | DINCE | Inhalation | ooo mg/m | population | Cysternio |
| | DNEL | Long term | 300 mg/m ³ | Workers | Local |
| | DINCE | Inhalation | ooo mg/m | Workers | Loogi |
| | DNEL | Short term | 600 mg/m ³ | Workers | Local |
| | DINCL | Inhalation | ooo mg/m | WORKERS | Local |
| | DNEL | Short term | 600 mg/m ³ | Workers | Systemic |
| | DINCL | Inhalation | 000 mg/m | WOIKEI3 | Oysternic |
| Hexamethylene diisocyanate, | DNEL | Long term | 0.5 mg/m ³ | Workers | Local |
| oligomers | DINCL | Inhalation | 0.5 mg/m | WOIKEI3 | LUCAI |
| oligomers | DNEL | Short term | 1 mg/m³ | Workers | Local |
| | | Inhalation | i ing/iii | TTOILEI3 | |
| 2-methoxy-1-methylethyl acetate | DNEL | Long term Dermal | 153.5 mg/ | Workers | Systemic |
| | | | kg bw/day | | Cysternic |
| | DNEL | Long term | 275 mg/m ³ | Workers | Systemic |
| | | Inhalation | 2, 0 mg/m | | Cysternie |
| | DNEL | Long term Dermal | 54.8 mg/ | General | Systemic |
| | | | kg bw/day | population | Cysternic |
| | | | Ng Dw/day | [Consumers] | |
| | DNEL | Long term | 33 mg/m ³ | General | Systemic |
| | DINLL | Inhalation | 55 mg/m | population | Systemic |
| | | | | [Consumers] | |
| | DNEL | Long term Oral | 1.67 mg/ | General | Systemic |
| | DNEL | Long term Oral | • | | Systemic |
| | | | kg bw/day | population [Consumers] | |
| | DNEL | Long torm | $22 m g/m^{3}$ | General | Local |
| | DNEL | Long term Inhalation | 33 mg/m³ | | LUCAI |
| | DNEL | | $22 m g/m^{3}$ | population | Sustamia |
| | DNEL | Long term Inhalation | 33 mg/m³ | General | Systemic |
| | DNEL | | 36 mg/kg | population General | Systemic |
| | DNEL | Long term Oral | bw/day | population | Systemic |
| | | Long torm | 275 mg/m ³ | | Svotomio |
| | DNEL | Long term | Zro mg/m° | Workers | Systemic |
| | DNEL | Inhalation | 220 malle | General | Suctomia |
| | DINEL | Long term Dermal | 320 mg/kg bw/day | population | Systemic |
| | DNEL | Short term | 550 mg/m ³ | Workers | Local |
| | DINEL | Inhalation | 550 mg/m² | VVUINCIS | Lucai |
| | DNEL | Long term Dermal | 796 mg/kg | Workers | Systemic |
| | DINEL | | bw/day | VVUINCIS | Systemic |
| vylene | DNEL | Long term Oral | 12.5 mg/ | General | Systemic |
| xylene | DINEL | | kg bw/day | population | Systemic |
| | DNEL | Long term | 65.3 mg/m ³ | General | Local |
| | DINEL | Inhalation | 00.0 mg/m ⁻ | population | LUCAI |
| | DNEL | Long term | 65.3 mg/m ³ | General | Systemic |
| | DINEL | Inhalation | 55.5 mg/m | population | Cysternic |
| | DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | DINEL | | bw/day | population | Systemic |
| | DNEL | Long term Dermal | 212 mg/kg | Workers | Systemic |
| | DINEL | | bw/day | VV UINCIS | Cysternic |
| | DNEL | Long term | | Workers | Local |
| | DINEL | Long term | 221 mg/m ³ | VVUIKEIS | LUGAI |
| | DNEL | Inhalation | 221 ma/m3 | Workers | Svotomia |
| | DINEL | Long term | 221 mg/m ³ | VVUIKEIS | Systemic |
| | | Inhalation | 260 mg/m3 | Conoral | |
| | DNEL | Short term | 260 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | | | | | |

SECTION 8: Exposure controls/personal protection

| ECTION 6. Exposure controls/personal protection | | | | | | | | |
|---|------|------------------|------------------------|------------|----------|--|--|--|
| | DNEL | Short term | 260 mg/m ³ | General | Systemic | | | |
| | | Inhalation | Ū | population | - | | | |
| | DNEL | Short term | 442 mg/m³ | Workers | Local | | | |
| | | Inhalation | - | | | | | |
| | DNEL | Short term | 442 mg/m³ | Workers | Systemic | | | |
| | | Inhalation | | | | | | |
| ethylbenzene | DMEL | Long term | 442 mg/m³ | Workers | Local | | | |
| | | Inhalation | | | | | | |
| | DMEL | Short term | 884 mg/m³ | Workers | Systemic | | | |
| | | Inhalation | | | | | | |
| | DNEL | Long term Oral | 1.6 mg/kg | General | Systemic | | | |
| | | | bw/day | population | | | | |
| | DNEL | Long term | 15 mg/m³ | General | Systemic | | | |
| | | Inhalation | | population | | | | |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic | | | |
| | | Inhalation | | | | | | |
| | DNEL | Long term Dermal | 180 mg/kg | Workers | Systemic | | | |
| | | | bw/day | | | | | |
| | DNEL | Short term | 293 mg/m³ | Workers | Local | | | |
| | | Inhalation | | | | | | |
| hexamethylene diisocyanate | DNEL | Long term | 0.035 mg/ | Workers | Local | | | |
| | | Inhalation | m³ | | | | | |
| | DNEL | Short term | 0.07 mg/m ³ | Workers | Local | | | |
| | | Inhalation | | | | | | |
| | | | | | | | | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--------------------------------|---------------------------|------------------|---------------|
| -butyl acetate | Fresh water | 0.18 mg/l | - |
| | Marine | 0.018 mg/l | - |
| | Sewage Treatment | 35.6 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 0.981 mg/kg dwt | - |
| | Marine water sediment | 0.0981 mg/kg dwt | - |
| | Soil | 0.0903 mg/kg dwt | |
| -methoxy-1-methylethyl acetate | Fresh water | 0.635 mg/l | - |
| , , , , | Marine | 0.0635 mg/l | - |
| | Sewage Treatment | 100 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 3.29 mg/kg dwt | - |
| | Marine water sediment | 0.329 mg/kg dwt | - |
| | Soil | 0.29 mg/kg dwt | - |
| kylene | Fresh water | 0.327 mg/l | - |
| J | Marine | 0.327 mg/l | - |
| | Sewage Treatment | 6.58 mg/l | - |
| | Plant | 0.00g,: | |
| | Fresh water sediment | 12.46 mg/kg dwt | - |
| | Marine water sediment | 12.46 mg/kg dwt | - |
| | Soil | 2.31 mg/kg dwt | - |
| ethylbenzene | Fresh water | 0.1 mg/l | - |
| | Marine | 0.01 mg/l | - |
| | Sewage Treatment | 9.6 mg/l | - |
| | Plant | 0.0 mg/i | |
| | Fresh water sediment | 13.7 mg/kg dwt | - |
| | Soil | 2.68 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |
| nexamethylene diisocyanate | Fresh water | 0.0774 mg/l | - |
| | Marine | 0.00774 mg/l | |
| | Sewage Treatment | 8.42 mg/l | - |
| | Plant | 0.72 mg/i | |
| | Fresh water sediment | 0.01334 mg/kg | |
| | | dwt | |
| | Marine water sediment | 0.001334 mg/kg | _ |
| | | dwt | - |
| | | | |
| of revision : 29.11.202 | Original proparation data | • 28 06 2023 | Version :1.02 |

| | | Soil | | 0.0026 mg/kg dwt | - | |
|-------------------------------------|--|--|--|--|---|--|
| | | | | o.cozo mg/ng um | | |
| 2 Exposure controls | | | | | | |
| Appropriate engineering controls | ventil conta contre | ation or other engin minants below any ols also need to kee | eering contro recommende ep gas, vapor | lse process enclosure ols to keep worker ex ed or statutory limits. ur or dust concentrati ventilation equipmen | posure to airbor The engineerin ons below any lo | ne g |
| Individual protection meas | ures | | | | | |
| Hygiene measures | befor Appro Conta conta | e eating, smoking a opriate techniques s aminated work cloth | and using the should be use ning should n efore reusing | bughly after handling lavatory and at the e ed to remove potentia ot be allowed out of th . Ensure that eyewas location. | nd of the workin Illy contaminated ne workplace. V | g perio d clothir Vash |
| Eye/face protection | asses gases unles | ssment indicates this or dusts. If contact | is is necessa ct is possible | 21-1:2022 should be ry to avoid exposure , the following protect gher degree of protec | to liquid splashe ion should be w | s, mists orn, |
| Skin protection | | | | | | |
| Hand protection | resist The k The in storag Glove mate Alway corre The p chem Barrie applie Wear Not re May k rubbe Reco mm), For ri penel The u produ | ance to any individu preakthrough time n instructions and info ge, maintenance ar es should be replace rial. ys ensure that glove ctly. performance or effe- ical damage and po- er creams may help ed once exposure h suitable gloves tes ecommended, glove be used, gloves (brear (> 0.75 mm), buty mmended, gloves (brear (> 0.75 mm), buty mmended, gloves (brear er (> 0.75 mm), buty mmended, gloves (brear and the choice of glove tration, seek advice user must check that ict is the most appro- | ual or combir nust be great rmation prov ad replaceme ed regularly a es are free fro ctiveness of to protect th as occurred. ted to ISO 33 es(breakthrough tir /l rubber (> 0 preakthrough tir /l rubber (> 0 | er than the end use t ided by the glove man nt must be followed. and if there is any sign om defects and that the the glove may be red nce. e exposed areas of th 74-1:2016. ugh time) < 1 hour: ne ne) 4 - 8 hours: Viton .4 mm), PVC (> 0.5 m time) > 8 hours: 4H/3 cohol (PVA) (> 0.3 m th focus on chemical lier of chemical resist oice of type of glove s akes into account the | ime of the produ nufacturer on us n of damage to t ney are stored a uced by physica ne skin but shou eoprene (> 0.35 ® (> 0.7 mm), n nm) Silver Shield® (> m) resistance and tant gloves. selected for han | ict. ie, he glov nd used l/ ld not b itrile > 0.07 time of dling th |
| Body protection | : Perso being befor wear disch Europ | e performed and the e handling this proc anti-static protectiv arges, clothing sho | pment for the risks involve luct. When t e clothing. F uld include a 1149 for furth | essment. body should be sele ed and should be app here is a risk of ignitic or the greatest protec nti-static overalls, boc er information on ma | roved by a spec on from static election from static ots and gloves. | ialist ectricity Refer to |
| Other skin protection | selec | | sk being per | nal skin protection me formed and the risks ing this product. | | |
| Respiratory protection | appro respii | priate standard or o | certification. | exposure, select a re Respirators must be ure proper fitting, train | used according | to a |
| | • | | | | | |

SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. |
| Colour | : Colourless. |
| Odour | : Hydrocarbon. |
| Odour threshold | : Not applicable. |
| Melting point/freezing point | : Not applicable. |
| Initial boiling point and boiling range | : Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average: 128.99°C (264.2°F) |
| Flammability (solid, gas) | : Not applicable. |
| Upper/lower flammability or explosive limits | : 0.8 - 7.6% |
| Flash point | : Closed cup: 26°C (78.8°F) |
| Auto-ignition temperature | : Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate). |
| Decomposition temperature | : Not available. |
| рН | : Not applicable. |
| Viscosity | : Kinematic (40°C): >20.5 mm²/s |
| Solubility(ies) | |

| Media | Result | |
|---------------------------|----------------------------|--|
| cold water hot water | Not soluble Not soluble | |
| Partition coefficient: n- | octanol/ : Not available. | |

| water | | |
|--------------------------|---|--|
| Vapour pressure | : | Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.84 kPa (6.3 mm Hg) (at 20°C) |
| | | Highest known value: 1 (n-butyl acetate) Weighted average: 0.91compared with butyl acetate |
| Vapour density | 1 | Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.03 (Air = 1) |
| Explosive properties | 1 | Not available. |
| Oxidising properties | 1 | Not available. |
| Particle characteristics | | |
| Median particle size | 1 | 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. |

Thermal decomposition (>200°C) may liberate relatively low concentrations of isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|----------------------------|---------------------------|------------|--------------|----------|
| p -butyl acetate | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 13100 mg/kg | - |
| 2-methoxy-1-methylethyl | LD50 Dermal | Rabbit | >5 g/kg | - |
| acetate | | | | |
| | LD50 Oral | Rat | 8532 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 20 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 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 | - |
| hexamethylene diisocyanate | LC50 Inhalation Dusts and | Rat | 124 mg/m³ | 4 hours |
| | mists | | | |

Conclusion/Summary : Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| ØptiPro Universal Topcoat Comp B | N/A | 23466.7 | N/A | 163.4 | 4.0 |
| n-butyl acetate | 13100 | N/A | N/A | N/A | N/A |
| hexane, 1,6-diisocyanato-, homopolymer | N/A | N/A | N/A | N/A | 1.5 |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1100 | N/A | 20 | N/A |
| ethylbenzene | 3500 | N/A | N/A | 17.8 | N/A |
| hexamethylene-di-isocyanate | N/A | N/A | N/A | 0.5 | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--------------------------|------------------------------------|-------|---------------------------|-------------|
| examethylene diisocyanate, oligomers | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| , , , , , , , , , , , , , , , , , , , | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| ylene | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| examethylene diisocyanate | Eyes - Mild irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Mammal - species | - | - | - |

SECTION 11: Toxicological information

| | | unspecified | | |
|--------------------|------------------|-------------|--|--|
| Conclusion/Summary | : Not available. | | | |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|---|-------------------|---|----------------------------|
| reversion of the second secon | skin skin | Mammal - species unspecified Mammal - species | Sensitising Sensitising |
| | | unspecified | |
| Conclusion/Summary | : Not available. | | |
| <u>Mutagenicity</u> | | | |
| Conclusion/Summary | : Not available. | | |
| Carcinogenicity | | | |
| Conclusion/Summary Reproductive toxicity | : Not available. | | |

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------------|------------|-------------------|------------------------------|
| n-butyl acetate | Category 3 | - | Narcotic effects |
| Hexamethylene diisocyanate, oligomers | Category 3 | - | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| hexamethylene diisocyanate | Category 3 | - | Respiratory tract irritation |

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 | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on likely routes : Not available. of exposure

| Potential acute health effects | | |
|--------------------------------|---|--|
| Eye contact | : | No known significant effects or critical hazards. |
| Inhalation | 1 | Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | 1 | May cause an allergic skin reaction. |
| Ingestion | ; | No known significant effects or critical hazards. |
| | | |

Symptoms related to the physical, chemical and toxicological characteristicsEye contact: No specific data.

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SECTION 11: Toxicological information

| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
|--------------|---|
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| | |

| Delayed and immediate effec | ts | as well as chronic effects from short and long-term exposure |
|--------------------------------|-----|---|
| <u>Short term exposure</u> | | |
| Potential immediate effects | : | Not available. |
| Potential delayed effects | : | Not available. |
| <u>Long term exposure</u> | | |
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Potential chronic health effe | ect | <u>s</u> |
| Not available. | | |
| Conclusion/Summary | : | Not available. |
| General | 1 | 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 |
|-------------------------|-----------------------------------|----------------------------------|----------|
| xylene | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| ethylbenzene | Acute LC50 13400 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 7700 μg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |

Conclusion/Summary : No known significant effects or critical hazards.

12.2 Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| x ylene | - | - | Readily |
| ethylbenzene | - | - | Readily |

12.3 Bioaccumulative potential

SECTION 12: Ecological information

| Product/ingredient name | LogPow | BCF | Potential | |
|--|--------|-------------|-----------|--|
| -butyl acetate | 2.3 | - | low | |
| Hexamethylene diisocyanate, oligomers | 5.54 | 367.7 | low | |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | low | |
| xylene | 3.12 | 8.1 to 25.9 | low | |
| ethylbenzene | 3.6 | - | low | |
| hexamethylene diisocyanate | 0.02 | 57.63 | 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.

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 | : Yes. |

Waste list

| Waste code | Waste code definition |
|---------------------|---|
| 08 01 11* | Waste paint and varnish containing organic solvents or other dangerous substances |
| Packaging | |
| Methods of disposal | 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. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|------------------------|------------------------|------------------------|------------------------|
| 14.1 UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | Paint related material | Paint related material | Paint related material | Paint related material |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | 111 | Ш | 111 |
| 14.5 Environmental hazards | No. | No. | No. | No. |

ADR/RID

: Hazard identification number 30 Tunnel code (D/E)

IMDG

: Emergency schedules F-E, S-E

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

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

: Not available.

Annex 14

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Ozone depleting substances

Not listed.

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

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

Danger criteria

Category

P5c

SECTION 15: Regulatory information

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 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.

assessment

15.2 Chemical safety

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

SECTION 16: Other information

| Indicates information that has | s changed from previously issued version. |
|--------------------------------|--|
| | ATE = Acute Toxicity Estimate EUH statement = SEA-specific Hazard statement 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

| Classification | Justification |
|--------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Acute Tox. 4, H332 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |

Full text of abbreviated H statements

Date of revision

SECTION 16: Other information

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H226 | Flammable liquid and vapour. |
| 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. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [SEA/GHS]

| h | | |
|-------------------|---|--|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 | |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 | |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 | |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 | |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 | |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 | |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 | |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 | |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 | |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 | |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 | |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 | |
| Date of printing | : 29.11.2023 | |

| Date of printing | : 29.11.2023 |
|------------------------|--------------|
| Date of issue/ Date of | : 29.11.2023 |
| revision | |
| Date of previous issue | : 28.06.2023 |
| Version | : 1.02 |
| | |

Contact information of certified author

Responsible Person: Deren Ercan Mail Address: deren.metiner@jotun.com Certificate No: LONCA KDU81/2021.26 Certificate Expiration Date: 14.10.2026

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