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

1.1 Product identifier

Product name : Jotapipe FC 406 Comp B

Product code : 32103
Product description : Hardener.
Product type : Liquid.
Other means of : Not available.

identification

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

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

1.3 Details of the supplier of the safety data sheet

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

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

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

Original preparation date : 29.11.2023

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

Product definition : Mixture

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

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

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

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

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

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms

W





Signal word : Danger.

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

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

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

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : 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. 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.

Immediately call a POISON CENTER or doctor.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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

national and international regulations.

Hazardous ingredients : xylene

fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and

triethylenetetramine

butan-1-ol ethylenediamine

amines, polyethylenepoly-, triethylenetetramine fraction

Supplemental label

elements

: Not applicable.

: Not applicable.

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

certain dangerous

substances, mixtures and

articles

Special packaging requirements

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria

for PBT or vPvB

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

vPvB.

Other hazards which do not result in classification

: None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| 3.2 Mixtures | : Mixture | 1 | | T |
|--|--|-----------|---|---------|
| Product/ingredient name | Identifiers | % | SEA: RG10/12/2020-31330 | Type |
| xylene | EC: 215-535-7 CAS: 1330-20-7 | ≥10 - ≤25 | 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] |
| fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine | CAS: 68082-29-1 | ≥10 - ≤20 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | [1] |
| ethylbenzene | EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | <10 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| butan-1-ol | EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6 | ≤5 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] [2] |
| Solvent naphtha (petroleum), light arom. | EC: 265-199-0 CAS: 64742-95-6 | ≤3 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | [1] |
| ethylenediamine | EC: 203-468-6 CAS: 107-15-3 Index: 612-006-00-6 | ≤0.3 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | [1] [2] |
| amines, polyethylenepoly-, triethylenetetramine fraction | CAS: 90640-67-8 | ≤0.3 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above. | [1] |

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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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 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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

Potential acute health effects

Eye contactInhalationCauses serious eye damage.May cause respiratory irritation.

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

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

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, CO2, water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

media

5.2 Special hazards arising from the substance or mixture

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

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

See Technical Data Sheet / packaging for further information.

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.

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SECTION 7: Handling and storage

Industrial sector specific : No solutions

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Occupational exposure limits

| Product/ingredient name | Exposure limit values | | |
|-------------------------|---|--|--|
| xylene | TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed isomers)] Absorbed through skin. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 442 mg/m³ 15 minutes. | | |
| ethylbenzene | STEL: 100 ppm 15 minutes. TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. | | |
| butan-1-ol | ACGIH TLV (United States, 1/2023). | | |
| ethylenediamine | TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 10 ppm 8 hours. | | |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

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

DNELs/DMELs

| Type | Exposure | Value | Population | Effects |
|------|---|---|---|---|
| DNEL | Long term Oral | 12.5 mg/ kg bw/day | General population | Systemic |
| DNEL | Long term Inhalation | | General | Local |
| DNEL | Long term | 65.3 mg/m³ | General | Systemic |
| DNEL | Long term Dermal | 125 mg/kg bw/dav | General | Systemic |
| DNEL | Long term Dermal | 212 mg/kg | Workers | Systemic |
| DNEL | Long term Inhalation | , | Workers | Local |
| DNEL | Long term | 221 mg/m ³ | Workers | Systemic |
| DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| DNEL | Short term Inhalation | 260 mg/m ³ | General | Systemic |
| DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| DNEL | Short term Inhalation | 442 mg/m³ | Workers | Systemic |
| | DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term | DNEL Long term Oral 12.5 mg/kg bw/day DNEL Long term 65.3 mg/m³ Inhalation DNEL Long term 65.3 mg/m³ Inhalation DNEL Long term Dermal 125 mg/kg bw/day DNEL Long term Dermal 212 mg/kg bw/day DNEL Long term 221 mg/m³ Inhalation DNEL Long term 221 mg/m³ Inhalation DNEL Short term 260 mg/m³ Inhalation DNEL Short term 260 mg/m³ Inhalation DNEL Short term 442 mg/m³ Inhalation DNEL Short term 442 mg/m³ Inhalation DNEL Short term 442 mg/m³ | DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term |

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SECTION 8: Exposure controls/personal protection

| | | | | T. |
|------|---|--|--|---|
| DNEL | Long term Oral | 97.2 µg/kg bw/day | General population | Systemic |
| DNEL | Long term Dermal | 97.2 µg/kg | General | Systemic |
| DNEL | Long term | 0.169 mg/ | General | Systemic |
| DNEL | Long term Dermal | 0.272 mg/ | Workers | Systemic |
| DNEL | Long term | 0.952 mg/ | Workers | Systemic |
| DMEL | Long term | 442 mg/m ³ | Workers | Local |
| DMEL | Short term | 884 mg/m³ | Workers | Systemic |
| DNEL | Long term Oral | 1.6 mg/kg | General | Systemic |
| DNEL | Long term | 15 mg/m ³ | General | Systemic |
| DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| DNEL | Long term Oral | 1.5625 mg/ kg bw/dav | General population | Systemic |
| DNEL | Long term Dermal | 3.125 mg/ | General | Systemic |
| DNEL | Long term | 55.357 mg/ | General | Systemic |
| DNEL | Long term | 155 mg/m³ | General | Local |
| DNEL | Long term | 310 mg/m³ | Workers | Local |
| DNEL | Long term Dermal | 12.5 mg/ kg bw/dav | Workers | Systemic |
| DNEL | Long term | 151 mg/m ³ | Workers | Systemic |
| DNEL | Long term Dermal | 7.5 mg/kg bw/day | General population | Systemic |
| DNEL | Long term Inhalation | 32 mg/m³ | [Consumers] General population | Systemic |
| DNEL | Long term Oral | 7.5 mg/kg bw/day | [Consumers] General population | Systemic |
| DNEL | Long term Oral | 0.11 mg/ | General | Systemic |
| DNEL | Long term | | General | Systemic |
| DNEL | Long term | 25 mg/m³ | Workers | Systemic |
| DNEL | Long term | 0.096 mg/ m³ | General population | Systemic |
| DNEL | Long term Oral | 0.14 mg/ | General | Systemic |
| DNEL | Long term Inhalation | 0.54 mg/m ³ | | Systemic |
| | DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DMEL Long term Inhalation DMEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Oral | DNEL Long term Dermal 97.2 μg/kg bw/day 0.169 mg/ m³ 0.272 mg/ kg bw/day 0.952 mg/ lnhalation DNEL Long term 0.952 mg/ m³ 0.952 mg/ lnhalation DMEL Long term 442 mg/m³ lnhalation DNEL Long term 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.55 mg/m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.55 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 mg/ m³ 1.6 mg/kg bw/day 0.962 mg/ m³ 1.6 | DNEL Long term Dermal bw/day population DNEL Long term Dermal bw/day 0.169 mg/ population DNEL Long term Dermal 0.272 mg/ workers DNEL Long term Dermal 0.272 mg/ workers DNEL Long term 1nhalation 1nhalation DMEL Short term 1nhalation DNEL Long term Oral 1.66 mg/kg bw/day 15 mg/m³ General population DNEL Long term 1nhalation DNEL Long term Dermal 1.5625 mg/ kg bw/day DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ Workers DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 155 mg/m³ General population DNEL Long term 151 mg/m³ Workers DNEL Long term 151 mg/m³ General population DNEL Long term 151 mg/m³ General population DNEL Long term 151 mg/m³ General population DNEL Long term 151 mg/m³ General population DNEL Long term 151 mg/m³ General population DNEL Long term 0ral 7.5 mg/kg bw/day DNEL Long term 0ral 7.5 mg/kg General population DNEL Long term 0ral 7.5 mg/kg General population DNEL Long term 0ral 7.5 mg/kg General population DNEL Long term 0ral 7.5 mg/kg General population DNEL Long term 0ral 9.11 mg/ General population DNEL Long term 0ral 9.25 mg/m³ General population DNEL Long term 0ral 9.25 mg/m³ population DNEL Long term 0ral 9.25 mg/m³ population DNEL Long term 0ral 9.096 mg/ General population DNEL Long term 0.096 mg/ General population DNEL Long term 0.096 mg/ General population DNEL Long term 0.096 mg/ General population DNEL Long term 0.096 mg/ General population |

PNECs

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--|------------------------|------------------|--------------------------|
| xylene | Fresh water | 0.327 mg/l | - |
| | Marine | 0.327 mg/l | - |
| | Sewage Treatment | 6.58 mg/l | - |
| | 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 | - |
| | Fresh water sediment | 13.7 mg/kg dwt | _ |
| | Soil | 2.68 mg/kg dwt | _ |
| | Secondary Poisoning | 20 mg/kg | _ |
| butan-1-ol | Fresh water | 0.082 mg/l | - |
| | Marine | 0.0082 mg/l | - |
| | Sewage Treatment Plant | 2476 mg/l | - |
| | Fresh water sediment | 0.178 mg/kg dwt | _ |
| | Marine water sediment | 0.0178 mg/kg dwt | _ |
| | Soil | 0.015 mg/kg dwt | - |
| amines, polyethylenepoly-, triethylenetetramine fraction | Fresh water | 190 μg/l | Assessment Factors |
| , | Fresh water sediment | 95.9 mg/kg | Equilibrium Partitioning |
| | Marine water | 38 µg/l | Assessment Factors |
| | Marine water sediment | 19.2 mg/kg | Equilibrium Partitioning |
| | Soil | 19.1 mg/kg | Equilibrium Partitioning |
| | Sewage Treatment Plant | 4.25 mg/l | Assessment Factors |
| | Secondary Poisoning | 0.18 mg/kg | Assessment Factors |

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

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

Eye/face protection

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection Hand protection

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

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

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

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

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SECTION 8: Exposure controls/personal protection

correctly.

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

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

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

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), Viton® (> 0.7 mm)

Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm),

PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield (> 0.07 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.75 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

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

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

Body protection

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

Other skin protection

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

Respiratory protection

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Colour : Clear.

Odour : Characteristic.
Odour threshold : Not applicable.

Melting point/freezing point : Not applicable.

Initial boiling point and boiling range

: Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average:

136.76°C (278.2°F)

Flammability (solid, gas)
Upper/lower flammability or
explosive limits

: 0.8 - 11.3%

: Not applicable.

Flash point : Closed cup: 25°C (77°F)

Auto-ignition temperature : Lowest known value: 355°C (671°F) (butan-1-ol).

Decomposition temperature : Not available.pH : Not applicable.

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SECTION 9: Physical and chemical properties

Kinematic (40°C): >20.5 mm²/s **Viscosity**

Solubility(ies)

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

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted

average: 0.64 kPa (4.8 mm Hg) (at 20°C)

Highest known value: 0.84 (ethylbenzene) Weighted average: 0.73compared

with butyl acetate

Vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.53 (Air = 1)

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

Particle characteristics

: Not applicable. Median particle size

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

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.

: Reactive or incompatible with the following materials: 10.5 Incompatible materials

oxidising materials

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------|------------------------|-----------------------|--------------|----------|
| xylene | LC50 Inhalation Vapour | Rat | 20 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| butan-1-ol | LD50 Oral | Rat | 790 mg/kg | - |
| ethylenediamine | LC50 Inhalation Vapour | Rat | 7 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 730 uL/kg | - |
| | LD50 Oral | Rat | 1200 mg/kg | - |
| amines, polyethylenepoly-, | LD50 Dermal | Rabbit - Male, | 1465.4 mg/kg | - |
| triethylenetetramine fraction | | Female | | |
| , | LD50 Oral | Rat - Male, Female | 1716.2 mg/kg | - |

Conclusion/Summary

: Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|---|--|---------------------------------|---------------------------------------|--|
| Jotapipe FC 406 Comp B xylene ethylbenzene butan-1-ol ethylenediamine amines, polyethylenepoly-, triethylenetetramine fraction | 11848.3 4300 3500 500 500 1716.2 | 6300.1 1100 N/A N/A 1100 1465.4 | N/A N/A N/A N/A N/A | 81.3 20 17.8 N/A 7 N/A | N/A N/A N/A N/A N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|------------------------------------|-------|------------------------|-------------|
| xylene | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| • | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| fatty acids, c18-unsatd., | Eyes - Irritant | Mammal - | - | - | - |
| dimers, polymers with tall-oil fatty acids and triethylenetetramine | | species unspecified | | | |
| thethylenetetramme | Skin - Mild irritant | Mammal - species unspecified | - | - | - |
| ethylenediamine | Eyes - Severe irritant | Rabbit | - | 24 hours 750 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 750 ug | - |
| | Skin - Moderate irritant | Rabbit | - | 450 mg | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 10 mg | - |

Conclusion/Summary

: Not available.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|--|-------------------|---------------------------------|-------------|
| fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine | skin | Mammal - species unspecified | Sensitising |
| ethylenediamine | skin | Mammal - species unspecified | Sensitising |
| amines, polyethylenepoly-, triethylenetetramine fraction | skin | Mammal - species unspecified | Sensitising |

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary :

: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes: Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.Inhalation : May cause respiratory irritation.

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

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

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

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SECTION 11: Toxicological information

Not available.

Conclusion/Summary : Not available.

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

to very low levels.

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

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------------|------------------------------------|-------------------------------|----------|
| xylene | Acute LC50 8500 μg/l Marine water | Crustaceans - Palaemonetes | 48 hours |
| | | pugio | |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| ethylbenzene | Acute EC50 7700 μg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |
| Solvent naphtha (petroleum), | Acute EC50 <10 mg/l | Daphnia | 48 hours |
| light arom. | _ | | |
| | Acute IC50 <10 mg/l | Algae | 72 hours |
| | Acute LC50 <10 mg/l | Fish | 96 hours |
| ethylenediamine | Acute EC50 100000 µg/l Fresh water | Algae - Chlorella pyrenoidosa | 96 hours |
| | Acute LC50 115.7 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 160 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| amines, polyethylenepoly-, | Acute EC50 20 mg/l | Algae | 72 hours |
| triethylenetetramine fraction | | | |
| | Acute EC50 31.1 mg/l | Daphnia | 48 hours |
| | Acute LC50 330 mg/l | Fish | 96 hours |

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

12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|--|
| xylene ethylbenzene Solvent naphtha (petroleum), light arom. amines, polyethylenepoly-, triethylenetetramine fraction | - - - | - | Readily Readily Not readily Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------------|--------|-------------|-----------|
| xylene | 3.12 | 8.1 to 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| butan-1-ol | 1 | - | low |
| Solvent naphtha (petroleum), | - | 10 to 2500 | high |
| light arom. | | | |
| ethylenediamine | -7.02 | - | low |
| amines, polyethylenepoly-, | -2.65 | - | low |
| triethylenetetramine fraction | | | |

12.4 Mobility in soil

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

: Yes.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

Waste list

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

Packaging

Methods of disposal

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

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------|--------|--------|--------|
| 14.1 UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | Paint | Paint | Paint | Paint |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III | III |
| | | | | |

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

Jotapipe FC 406 Comp B **SECTION 14: Transport information** Yes. 14.5 No. No. No. **Environmental** hazards

Additional information

ADR/RID : Hazard identification number 30

Tunnel code (D/E)

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

transported in tank vessels.

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

: Not available.

SECTION 15: Regulatory information

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

Turkey Regulation No. 30105, KKDIK

Annex 14 - List of substances subject to authorization

Annex 14

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

: Not applicable.

Ozone depleting substances

Not listed.

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

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

Danger criteria

Category

P5c

EU regulations

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

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SECTION 15: Regulatory information

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

Annex XVII - Restrictions : Not applicable.

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

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

Not listed.

Persistent Organic Pollutants

Not listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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

assessment required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

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 |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H226 | Flammable liquid and vapour. |
| | Harmful if swallowed. |
| H302 | |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [SEA/GHS]

| Tun toxt or ordoomou | |
|----------------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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Notice to reader

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

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

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