SAFETY DATA SHEET



Marine Rubbing

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

1.1 Product identifier

Product name : Marine Rubbing

UFI : 3140-4045-8009-54JC

Product code : 22440
Product description : Cleaner.
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 - Consumer use: Apply this product only as specified on the label.

1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

NOBB number : 48661945

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

Hazard pictograms :



Signal word : Warning.

Hazard statements : H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

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SECTION 2: Hazards identification

General : P102 - Keep out of reach of children.

Prevention : P280 - Wear eye or face protection.
P273 - Avoid release to the environment.

P264 - Wash hands thoroughly after handling.

Response : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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

Storage : Not applicable.

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

national and international regulations.

Hazardous ingredients: alcohols, C9-11, ethoxylated

2-butoxyethanol

Supplemental label elements

: EUH208 - Contains (R)-p-mentha-1,8-diene and C(M)IT/MIT (3:1). May produce an

allergic reaction.

: Not applicable.

Annex XVII - 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 according to Regulation (EC) No. 1907/2006, Annex XIII : 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 | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|---|---|-----------|---|--|---------|
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | REACH #: 01-2119457273-39 EC: 265-150-3 CAS: - | ≥10 - ≤25 | Asp. Tox. 1, H304 EUH066 | - | [1] [2] |
| alcohols, C9-11, ethoxylated | REACH #: Polymer EC: 614-482-0 CAS: 68439-46-3 | ≤5 | Eye Irrit. 2, H319 | - | [1] |
| 2-butoxyethanol | REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 | ≤5 | Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l | [1] [2] |
| (R)-p-mentha-1,8-diene | EC: 227-813-5 CAS: 5989-27-5 | <1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 | M [Acute] = 1 M [Chronic] = 1 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| - | | | <u> </u> | | |
|------------------|--|---------|--|--|-----|
| | Index: 601-029-00-7 | | Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | | |
| C(M)IT/MIT (3:1) | REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5 | <0.0015 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | ATE [Oral] = 53 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1B, H314: $C \ge 0.6\%$ Skin Irrit. 2, H315: $0.06\% \le C < 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | | |

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

Type

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders

| General | : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. |
|--------------|--|
| Eye contact | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
| Inhalation | Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and |

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.
 Keep person warm and at rest. Do NOT induce vomiting.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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SECTION 4: First aid measures

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

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

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

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SECTION 6: Accidental release measures

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|--|
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, | ` , |
| cyclics, < 2% aromatics | TWA: 275 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| 2-butoxyethanol | FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through |
| · | skin. Notes: indicative limit value |
| | TWA: 10 ppm 8 hours. |
| | TWA: 50 mg/m ³ 8 hours. |
| (R)-p-mentha-1,8-diene | FOR-2011-12-06-1358 (Norway, 6/2021). Skin sensitiser. |
| | TWA: 25 ppm 8 hours. |
| | TWA: 140 mg/m³ 8 hours. |

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures

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

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|------------------------------|------|--------------------------------|------------------------------------|--------------------------------|----------|
| alcohols, C9-11, ethoxylated | DNEL | Long term Oral | 25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 87 mg/m³ | General population | Systemic |
| | DNEL | Long term | 294 mg/m³ | Workers | Systemic |
| | DNEL | Inhalation Long term Dermal | 1250 mg/ | General | Systemic |
| | DNEL | Long term Dermal | kg bw/day 2080 mg/ kg bw/day | population Workers | Systemic |
| 2-butoxyethanol | DNEL | Short term Dermal | 89 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 663 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 246 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 75 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term Dermal | 44.5 mg/ kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Inhalation | 426 mg/m³ | General population | Systemic |
| | DNEL | Short term Oral | 13.4 mg/ kg bw/day | [Consumers] Workers | Systemic |
| | DNEL | Short term Inhalation | 123 mg/m³ | General population [Consumers] | Local |
| | DNEL | Long term Dermal | 38 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 49 mg/m³ | [Consumers] General population | Systemic |
| | DNEL | Long term Oral | 3.2 mg/kg bw/day | [Consumers] General population | Systemic |
| | DNEL | Long term Oral | 6.3 mg/kg bw/day | [Consumers] General population | Systemic |
| | DNEL | Short term Oral | 26.7 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 59 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term | 147 mg/m³ | General | Local |

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SECTION 8: Exposure controls/personal protection

| | | lub alatian | | n anulation | |
|------------------------|------------------|------------------|------------------------|--------------|--------------|
| | | Inhalation | | population | |
| | DNEL | Short term | 246 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 426 mg/m ³ | General | Systemic |
| | | Inhalation | · · | population | • |
| | DNEL | Short term | 1091 mg/ | Workers | Systemic |
| | 0.122 | Inhalation | m ³ | TT GIRGIG | C you con mo |
| (R)-p-mentha-1,8-diene | DNEL | Long term Dermal | 4.8 mg/kg | General | Systemic |
| (11)-p-memma-1,0-diene | DIVLL | Long term Dermai | 0 0 | | Systemic |
| | D. 151 | l | bw/day | population | 0 |
| | DNEL | Long term Dermal | 9.5 mg/kg | Workers | Systemic |
| | | | bw/day | | _ |
| | DNEL | Long term Oral | 4.8 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term | 16.6 mg/m ³ | General | Systemic |
| | | Inhalation | | population | • |
| | DNEL | Long term | 66.7 mg/m ³ | | Systemic |
| | | Inhalation | J . | | , |
| C(M)IT/MIT (3:1) | DNEL | Long term | 0.02 mg/m ³ | General | Local |
| G(W)(17/W)(1 (0.1) | DIVLE | Inhalation | 0.02 mg/m | population | Loodi |
| | DNEL | Long term | 0.02 mg/m ³ | | Local |
| | DINEL | _ | 0.02 mg/m | VVOIKEIS | Lucai |
| | DAIE | Inhalation | 0.04 | 0 | 1 1 |
| | DNEL | Short term | 0.04 mg/m ³ | | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 0.04 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term Oral | 0.09 mg/ | General | Systemic |
| | | | kg bw/day | population | • |
| | DNEL | Short term Oral | 0.11 mg/ | General | Systemic |
| | · · · - - | | kg bw/day | population | , |
| | | | | F-F-01001011 | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|-------------------------|-----------------------|----------------|---------------|
| 2-butoxyethanol | Fresh water | 8.8 mg/l | - |
| • | Marine | 0.88 mg/l | - |
| | Sewage Treatment | 463 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 34.6 mg/kg dwt | - |
| | Marine water sediment | 3.46 mg/kg dwt | - |
| | Soil | 3.13 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

Skin protection

Hand protection

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SECTION 8: Exposure controls/personal protection

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

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

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

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

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

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

Gloves

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

May be used, gloves(breakthrough time) 4 - 8 hours: 4H/Silver Shield® (> 0.07 mm), neoprene (> 0.35 mm)

Recommended, gloves(breakthrough time) > 8 hours: butyl rubber (> 0.4 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.4 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

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

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

Body protection

: Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres.

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

If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

Environmental exposure controls

: Do not allow to enter drains or watercourses.

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 : Off-white. **Odour** Characteristic. Not applicable. **Odour threshold**

Melting point/freezing point

Initial boiling point and Lowest known value: 171 to 171.5°C (339.8 to 340.7°F)(2-butoxyethanol).

Weighted average: 183.57°C (362.4°F) boiling range

: Not applicable. **Flammability** : 1.1 - 12.7% Lower and upper explosion

limit

Flash point : Closed cup: 65°C

Auto-ignition temperature : Lowest known value: 230°C (446°F) (2-butoxyethanol).

Decomposition temperature : Not available.

pН 8.5

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

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SECTION 9: Physical and chemical properties

Solubility in water : cold water Soluble hot water Soluble

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure : Highest known value: 0.1 to 0.3 kPa (0.8 to 2.3 mm Hg) (at 20°C) (hydrocarbons,

C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics). Weighted average:

0.18 kPa (1.35 mm Hg) (at 20°C)

Evaporation rate : 0.072 (2-butoxyethanol) compared with butyl acetate

Density : 1.017 g/cm³

Vapour density : Highest known value: 4.1 (Air = 1) (2-butoxyethanol).

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

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

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous 10.6 Hazardous 10.7 Hazardous 10.8 Hazardous 10.9 Hazardous 10.9

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|-------------|------------------------------|-------------|----------|
| alcohols, C9-11, ethoxylated | LD50 Oral | Rat | 1378 mg/kg | - |
| 2-butoxyethanol | LD50 Oral | Guinea pig - Male, Female | 1414 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | 1300 mg/kg | - |
| (R)-p-mentha-1,8-diene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 4400 mg/kg | - |
| C(M)IT/MIT (3:1) | LD50 Oral | Rat | 53 mg/kg | - |

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) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Marine Rubbing | 24489.8 | N/A | N/A | 61.2 | N/A |
| 2-butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| (R)-p-mentha-1,8-diene | 4400 | N/A | N/A | N/A | N/A |
| C(M)IT/MIT (3:1) | 53 | 50 | N/A | 0.5 | N/A |

Irritation/Corrosion

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|--------------------------|------------------------------------|-------|------------------------|-------------|
| alcohols, C9-11, ethoxylated | Eyes - Irritant | Mammal - species unspecified | - | - | - |
| 2-butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| (R)-p-mentha-1,8-diene | Skin - Mild irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 10 Percent | - |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------------------------|-------------|
| (R)-p-mentha-1,8-diene | skin | Mammal - species unspecified | Sensitising |
| C(M)IT/MIT (3:1) | skin | Mammal - species unspecified | Sensitising |

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

Aspiration hazard

| Product/ingredient name | Result |
|---|--------------------------------|
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | ASPIRATION HAZARD - Category 1 |
| (R)-p-mentha-1,8-diene | ASPIRATION HAZARD - Category 1 |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|------------------------------|--|--|--------------------|
| alcohols, C9-11, ethoxylated | Acute EC50 5.36 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 2686 μg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| 2-butoxyethanol | Acute EC50 1000 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| • | Acute LC50 1000 mg/l Marine water | Crustaceans - | 48 hours |
| | - | Chaetogammarus marinus - Young | |
| (R)-p-mentha-1,8-diene | Acute EC50 421 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| 7 | Acute EC50 688 μg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| C(M)IT/MIT (3:1) | Acute EC50 0.048 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 0.0052 mg/l | Algae - Skeletonema costatum | 48 hours |
| | Acute EC50 0.1 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.22 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute NOEC 0.00064 mg/l | Algae - Skeletonema costatum | 48 hours |
| | Chronic NOEC 0.0012 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC 0.004 mg/l Chronic NOEC 0.098 mg/l | Daphnia - Daphnia magna Fish - Oncorhynchus mykiss | 21 days 28 days |

Conclusion/Summary

: Water polluting material. May be harmful to the environment if released in large quantities. 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 |
|-------------------------|-------------------|------------|------------------|
| C(M)IT/MIT (3:1) | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------|------------|-------------|
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | - | 10 to 2500 | high |
| 2-butoxyethanol | 0.81 | - | low |
| (R)-p-mentha-1,8-diene C(M)IT/MIT (3:1) | 4.38 | - 3.16 | high 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 Endocrine disrupting properties

Not available.

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SECTION 12: Ecological information

12.7 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.

Disposal considerations

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation |
|------------|--|
| 20 01 29* | detergents containing hazardous 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.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | | European waste catalogue (EWC) |
|-------------------|-----------|--|
| CEPE Guidelines | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

Special precautions

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

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |

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| Marine Rubbing | | | | |
|-----------------------------------|-----|-----|-----|-----|
| SECTION 14: Transport information | | | | |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

14.6 Special precautions for

ser

: **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 Maritime transport in bulk according to IMO

: Not available.

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 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 : Not applicable.

Other EU regulations

VOC

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use

Mixture

: Not available.

Industrial emissions (integrated pollution prevention and control) -

Air

: Not listed

: Not listed

Industrial emissions (integrated pollution prevention and control) -

Water

Detergents - Regulation (EC) No 907/2006

Contents

: Contains: aliphatic hydrocarbons 15-30%, Nonionic surfactants < 5 %. In-can preservative: 2-Bromo-2-Nitropropane-1,3-Diol, Methylchloroisothiazolinone, Methylisothiazolinone.

Parrym. Limonene

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

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SECTION 15: Regulatory information

Seveso Directive

This product is not controlled under the Seveso Directive.

Norway

Product registration : 625084

number

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 : Not applicable.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|----------------|------------------------------------|
| | Expert judgment Calculation method |

Full text of abbreviated H statements

| H226 | Flammable liquid and vapour. |
|------|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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SECTION 16: Other information

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
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. 3 FLAMMABLE LIQUIDS - Category 3

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

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Notice to reader

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

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