

# SAFETY DATA SHEET



## Jotun Peroxide 1

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

#### 1.1 Product identifier

**Product name** : Jotun Peroxide 1  
**Product code** : 21740  
**Product description** : Oxidising material.  
**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  
Use in coatings - Professional use

#### 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

### 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]

Org. Perox. D, H242  
Acute Tox. 4, H302  
Acute Tox. 4, H332  
Skin Corr. 1B, H314  
Eye Dam. 1, H318

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** :



Jotun Peroxide 1

## SECTION 2: Hazards identification

|   |  |
|---|--|
| <b>Signal word</b>  | : Danger.  |
| <b>Hazard statements</b>  | : H242 - Heating may cause a fire.<br>H302 + H332 - Harmful if swallowed or if inhaled.<br>H314 - Causes severe skin burns and eye damage.   |
| <b><u>Precautionary statements</u></b>  |  |
| <b>General</b>  | : Not applicable.  |
| <b>Prevention</b>   | : P280 - Wear protective gloves, protective clothing and eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P234 - Keep only in original packaging.<br>P261 - Avoid breathing vapour.<br>P270 - Do not eat, drink or smoke when using this product.   |
| <b>Response</b>   | : P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.<br>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.<br>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.<br>P363 - Wash contaminated clothing before reuse.<br>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. |
| <b>Storage</b>  | : P403 - Store in a well-ventilated place.<br>P420 - Store separately.   |
| <b>Disposal</b>   | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| <b>Hazardous ingredients</b>  | : Methyl ethyl ketone peroxide<br>Hydrogen peroxide solution   |
| <b>Supplemental label elements</b>  | : Not applicable.  |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : Not applicable.  |
| <b><u>Special packaging requirements</u></b>  |  |
| <b>Containers to be fitted with child-resistant fastenings</b>  | : Not applicable.  |
| <b>Tactile warning of danger</b>  | : Not applicable.  |

### 2.3 Other hazards

|  |   |
|--|---|
| <b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b> | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| <b>Other hazards which do not result in classification</b>   | : None known.   |

Jotun Peroxide 1

**SECTION 3: Composition/information on ingredients****3.2 Mixtures** : Mixture

| Product/ingredient name      | Identifiers  | %         | Classification   | Specific Conc. Limits, M-factors and ATEs                      | Type    |
|------------------------------|--|-----------|--|--|---------|
| dimethyl phthalate           | EC: 205-011-6<br>CAS: 131-11-3   | ≥50 - ≤75 | Not classified.  | -  | [2]     |
| methyl ethyl ketone peroxide | REACH #:<br>01-2119514691-43<br>EC: 215-661-2<br>CAS: 1338-23-4                      | ≥25 - ≤50 | Org. Perox. D, H242<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318   | ATE [Oral] = 470 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| butanone                     | REACH #:<br>01-2119457290-43<br>EC: 201-159-0<br>CAS: 78-93-3<br>Index: 606-002-00-3 | ≤3        | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066  | -  | [1] [2] |
| Hydrogen peroxide solution   | REACH #:<br>01-2119485845-22<br>EC: 231-765-0<br>CAS: 7722-84-1                      | ≤3        | Ox. Liq. 1, H271<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Oral] = 500 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [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, 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**

- 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** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- 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 water or use recognised skin cleanser. Do NOT use solvents or thinners. Wash clothing before reuse.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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.

Jotun Peroxide 1

## SECTION 4: First aid measures

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

#### Over-exposure signs/symptoms

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

### 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, CO<sub>2</sub>, 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. CAUTION: May re-ignite itself after fire is extinguished. Material supports combustion. In case of fire and/or explosion do not breathe fumes. 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".

*Jotun Peroxide 1***SECTION 6: Accidental release measures**

- 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). The waste should NOT be confined. Preferably clean with a detergent. Avoid using solvents.
- 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**

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Avoid confinement. Do not allow to dry out. Avoid shock and friction. Explosive when dry.

**Information on fire and explosion protection**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Use explosion-proof electrical (ventilating and lighting) equipment.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from reducing agents, heavy metal compounds and alkaline and acidic materials.

**Additional information on storage conditions**

Observe label precautions. Do not store above the following temperature: 25°C (77°F). 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. Keep only in the original container.

**Seveso Directive - Reporting thresholds****Danger criteria**

Jotun Peroxide 1

## SECTION 7: Handling and storage

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P6b      | 50 tonne                        | 200 tonne               |

See Technical Data Sheet / packaging for further information.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## 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  |
|------------------------------|--|
| dimethyl phthalate           | <b>FOR-2011-12-06-1358 (Norway, 12/2022).</b><br>TWA: 3 mg/m <sup>3</sup> 8 hours.   |
| methyl ethyl ketone peroxide | <b>FOR-2011-12-06-1358 (Norway, 12/2022). Notes: T</b><br>CEIL: 1 mg/m <sup>3</sup>  |
| butanone                     | <b>FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value</b><br>TWA: 75 ppm 8 hours.<br>TWA: 220 mg/m <sup>3</sup> 8 hours. |
| Hydrogen peroxide solution   | <b>FOR-2011-12-06-1358 (Norway, 12/2022).</b><br>TWA: 1 ppm 8 hours.<br>TWA: 1.4 mg/m <sup>3</sup> 8 hours.                                |

**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  |
|------------------------------|------|-----------------------|------------------------|--------------------|----------|
| methyl ethyl ketone peroxide | DNEL | Long term Oral        | 0.26 mg/kg bw/day      | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 0.44 mg/m <sup>3</sup> | General population | Systemic |
|                              | DNEL | Long term Dermal      | 0.51 mg/kg bw/day      | General population | Systemic |
|                              | DNEL | Long term Dermal      | 1.43 mg/kg bw/day      | Workers            | Systemic |
|                              | DNEL | Long term Inhalation  | 2.52 mg/m <sup>3</sup> | Workers            | Systemic |
|                              | DNEL | Short term Inhalation | 7.55 mg/m <sup>3</sup> | Workers            | Systemic |
| butanone                     | DNEL | Long term Dermal      | 1161 mg/kg bw/day      | Workers            | Systemic |
|                              | DNEL | Long term             | 600 mg/m <sup>3</sup>  | Workers            | Systemic |

Jotun Peroxide 1

## SECTION 8: Exposure controls/personal protection

|                            |      |                                |                        |                                      |          |
|----------------------------|------|--------------------------------|------------------------|--------------------------------------|----------|
| Hydrogen peroxide solution | DNEL | Inhalation<br>Long term Dermal | 412 mg/kg<br>bw/day    | General<br>population<br>[Consumers] | Systemic |
|                            | DNEL | Long term<br>Inhalation        | 106 mg/m <sup>3</sup>  | General<br>population<br>[Consumers] | Systemic |
|                            | DNEL | Long term Oral                 | 31 mg/kg<br>bw/day     | General<br>population<br>[Consumers] | Systemic |
|                            | DNEL | Long term Oral                 | 31 mg/kg<br>bw/day     | General<br>population                | Systemic |
|                            | DNEL | Long term<br>Inhalation        | 106 mg/m <sup>3</sup>  | General<br>population                | Systemic |
|                            | DNEL | Long term Dermal               | 412 mg/kg<br>bw/day    | General<br>population                | Systemic |
|                            | DNEL | Short term<br>Inhalation       | 450 mg/m <sup>3</sup>  | General<br>population                | Systemic |
|                            | DNEL | Long term<br>Inhalation        | 600 mg/m <sup>3</sup>  | Workers                              | Systemic |
|                            | DNEL | Short term<br>Inhalation       | 900 mg/m <sup>3</sup>  | Workers                              | Systemic |
|                            | DNEL | Long term Dermal               | 1161 mg/<br>kg bw/day  | Workers                              | Systemic |
|                            | DNEL | Long term<br>Inhalation        | 0.21 mg/m <sup>3</sup> | General<br>population                | Local    |
|                            | DNEL | Long term<br>Inhalation        | 1.4 mg/m <sup>3</sup>  | Workers                              | Local    |
|                            | DNEL | Short term<br>Inhalation       | 1.93 mg/m <sup>3</sup> | General<br>population                | Local    |
|                            | DNEL | Short term<br>Inhalation       | 3 mg/m <sup>3</sup>    | Workers                              | Local    |

### PNECs

| Product/ingredient name | Compartment Detail        | Value            | Method Detail |
|-------------------------|---------------------------|------------------|---------------|
| Butanone                | Fresh water               | 55.8 mg/l        | -             |
|                         | Marine                    | 55.8 mg/l        | -             |
|                         | Sewage Treatment<br>Plant | 709 mg/l         | -             |
|                         | Fresh water sediment      | 284.74 mg/kg dwt | -             |
|                         | Marine water sediment     | 284.7 mg/kg dwt  | -             |
|                         | Soil                      | 22.5 mg/kg dwt   | -             |
|                         | Secondary Poisoning       | 1000 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. 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Jotun Peroxide 1

## SECTION 8: Exposure controls/personal protection

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

### Skin protection

#### Hand protection

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

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

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

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

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

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

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

#### Gloves

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

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), butyl rubber (> 0.4 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: PVC (> 0.5 mm), neoprene (> 0.35 mm)

Not recommended, gloves(breakthrough time) < 1 hour: 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** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. Wash clothing before reuse.

**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

|  |   |
|--|---|
| <b>Physical state</b>                          | : Liquid.   |
| <b>Colour</b>                                  | : Clear.  |
| <b>Odour</b>                                   | : Characteristic.   |
| <b>Odour threshold</b>                         | : Not applicable.   |
| <b>Melting point/freezing point</b>            | : Not applicable.   |
| <b>Initial boiling point and boiling range</b> | : Lowest known value: 79.59°C (175.3°F) (butanone). Weighted average: 264.2°C (507.6°F) |
| <b>Flammability</b>                            | : Not applicable.   |



Jotun Peroxide 1

**SECTION 9: Physical and chemical properties**

|  |   |
|--|---|
| <b>Lower and upper explosion limit</b>         | : 0.9 - 11.5%   |
| <b>Flash point</b>                             | : Closed cup: 75°C  |
| <b>Auto-ignition temperature</b>               | : Lowest known value: 404°C (759.2°F) (butanone).   |
| <b>Decomposition temperature</b>               | : Not available.  |
| <b>pH</b>                                      | : Not applicable.   |
| <b>Viscosity</b>                               | : Kinematic (40°C): >20.5 mm <sup>2</sup> /s  |
| <b>Solubility in water</b>                     | : cold water            Not soluble<br>hot water            Not soluble   |
| <b>Partition coefficient: n-octanol/ water</b> | : Not available.  |
| <b>Vapour pressure</b>                         | : Highest known value: 10.5 kPa (78.8 mm Hg) (at 20°C) (butanone). Weighted average: 0.36 kPa (2.7 mm Hg) (at 20°C) |
| <b>Evaporation rate</b>                        | : Highest known value: 7.12 (butanone) Weighted average: 0.34 compared with butyl acetate                           |
| <b>Density</b>                                 | : 1.16 g/cm <sup>3</sup>  |
| <b>Vapour density</b>                          | : Highest known value: 6.69 (Air = 1) (dimethyl phthalate). Weighted average: 6.28 (Air = 1)                        |
| <b>Explosive properties</b>                    | : Not available.  |
| <b>Oxidising properties</b>                    | : Not available.  |
| <b><u>Particle characteristics</u></b>         |   |
| <b>Median particle size</b>                    | : Not applicable.   |

**9.2 Other information****SADT** : 60°C

No additional information.

**SECTION 10: Stability and reactivity**

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>10.2 Chemical stability</b>                 | : Hazardous reactions or instability may occur under certain conditions of storage or use.  |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.<br>SADT (Self-Accelerating Decomposition Temperature) is the lowest temperature at which self-accelerating decomposition may occur with a substance in the packaging as used for transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at or above the SADT. Contact with incompatible substances can cause decomposition at or below the SADT.<br>Avoid shock and friction. |
| <b>10.5 Incompatible materials</b>             | : Keep away from rust, iron and copper. Contact with incompatible materials, such as acids, alkalis, heavy metal compounds and reducing agents, will result in hazardous decomposition. Do not mix with peroxide accelerators.  |
| <b>10.6 Hazardous decomposition products</b>   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.   |

Jotun Peroxide 1

**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 |
|--|-------------|---------|------------|----------|
| methyl ethyl ketone peroxide<br>butanone | LD50 Oral   | Rat     | 470 mg/kg  | -        |
|  | LD50 Dermal | Rabbit  | 6480 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) |
|------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Jotun Peroxide 1             | 1264.9       | N/A            | N/A                      | 11                          | N/A                                 |
| methyl ethyl ketone peroxide | 470          | N/A            | N/A                      | 11                          | N/A                                 |
| butanone                     | 2737         | 6480           | N/A                      | N/A                         | N/A                                 |
| Hydrogen peroxide solution   | 500          | N/A            | N/A                      | 11                          | N/A                                 |

**Irritation/Corrosion**

| Product/ingredient name    | Result                   | Species                      | Score | Exposure                | Observation |
|----------------------------|--------------------------|------------------------------|-------|-------------------------|-------------|
| butanone                   | Eyes - Mild irritant     | Mammal - species unspecified | -     | -                       | -           |
|                            | Skin - Mild irritant     | Rabbit                       | -     | 24 hours 14 milligrams  | -           |
|                            | Skin - Moderate irritant | Rabbit                       | -     | 24 hours 500 milligrams | -           |
| Hydrogen peroxide solution | Eyes - Severe irritant   | Rabbit                       | -     | 1 milligrams            | -           |

**Sensitisation**

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

**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)**

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| butanone                | Category 3 | -                 | Narcotic effects |

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

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

**Aspiration hazard**

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

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Jotun Peroxide 1

**SECTION 11: Toxicological information**

Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

| Product/ingredient name                | Result                              | Species   | Exposure |
|--|-------------------------------------|---|----------|
| butanone<br>Hydrogen peroxide solution | Acute EC50 500000 µg/l Marine water | Algae - Skeletonema costatum                              | 96 hours |
|  | Acute LC50 530 mg/l Fresh water     | Fish - Lepomis macrochirus                                | 96 hours |
|  | Acute EC50 1.2 mg/l Marine water    | Algae - Dunaliella tertiolecta - Exponential growth phase | 72 hours |
|  | Acute EC50 5.38 mg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                   | 96 hours |
|  | Acute EC50 2320 µg/l Fresh water    | Daphnia - Daphnia magna - Neonate                         | 48 hours |
|  | Acute LC50 30 mg/l Fresh water      | Fish - Siluriformes - Fingerling                          | 96 hours |
|  | Chronic NOEC 989.7 ppm Fresh water  | Fish - Oncorhynchus tshawytscha - Egg                     | 43 days  |

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

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

| Product/ingredient name      | LogP <sub>ow</sub> | BCF | Potential |
|------------------------------|--------------------|-----|-----------|
| methyl ethyl ketone peroxide | <0.3               | -   | low       |
| butanone                     | 0.3                | -   | low       |
| Hydrogen peroxide solution   | -1.36              | -   | low       |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

**12.7 Other adverse effects**

No known significant effects or critical hazards.

Jotun Peroxide 1

## 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   |
|------------|---|
| 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.

**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 spill material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID  | ADN  | IMDG  | IATA   |
|--|--|--|---|--|
| <b>14.1 UN number or ID number</b>     | UN3105   | UN3105   | UN3105  | UN3105   |
| <b>14.2 UN proper shipping name</b>    | Organic peroxide type D, liquid (methyl ethyl ketone peroxide)                             | Organic peroxide type D, liquid (methyl ethyl ketone peroxide)                             | Organic peroxide type D, liquid (methyl ethyl ketone peroxide)                              | Organic peroxide type D, liquid (methyl ethyl ketone peroxide)                               |
| <b>14.3 Transport hazard class(es)</b> | 5.2<br> | 5.2<br> | 5.2<br> | 5.2<br> |
| <b>14.4 Packing group</b>              | -  | -  | -   | -  |

Jotun Peroxide 1

## SECTION 14: Transport information

|                                   |     |     |     |     |
|-----------------------------------|-----|-----|-----|-----|
| <b>14.5 Environmental hazards</b> | No. | No. | No. | No. |
|-----------------------------------|-----|-----|-----|-----|

### Additional information

**ADR/RID** : **Hazard identification number** 539  
**Tunnel code** (D)

**IMDG** : **Emergency schedules** F-J, S-R

**14.6 Special precautions for user** : **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 instruments** : Not available.

## 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

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

Jotun Peroxide 1

**SECTION 15: Regulatory information**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

**National regulations**

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**Norway**

**Product registration number** : Under declaration

**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 assessment** : Not applicable.

**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  |
|--|--|
| Org. Perox. D, H242<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 | Expert judgment<br>Calculation method<br>On basis of test data<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

*Jotun Peroxide 1***SECTION 16: Other information**

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                   |
| H242   | Heating may cause a fire.                             |
| H271   | May cause fire or explosion; strong oxidiser.         |
| H302   | Harmful if swallowed.                                 |
| H314   | Causes severe skin burns and eye damage.              |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H332   | Harmful if inhaled.                                   |
| H336   | May cause drowsiness or dizziness.                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Full text of classifications [CLP/GHS]**

|               |   |
|---------------|---|
| Acute Tox. 4  | ACUTE TOXICITY - Category 4                                   |
| 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                                |
| Org. Perox. D | ORGANIC PEROXIDES - Type D                                    |
| Ox. Liq. 1    | OXIDISING LIQUIDS - Category 1                                |
| Skin Corr. 1A | SKIN CORROSION/IRRITATION - Category 1A                       |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B                       |
| STOT SE 3     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

**Date of printing** : 31.01.2024**Date of issue/ Date of revision** : 31.01.2024**Date of previous issue** : 24.03.2023**Version** : 1.02**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.