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

#### 1.1 Product identifier

Product name : Aluflex

UFI: TH00-A0QC-U001-TVNW

Product code : 344

Product description : Paint.

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 A/S Jotun Paints (Europe) Ltd.

P.O.Box 2021 Stather Road

3202 Sandefjord Flixborough, Scunthorpe Norway North Lincolnshire

Tel: + 47 33 45 70 00 DN15 8RR Fax: +47 33 45 72 42 England

E-mail: SDSJotun@jotun.no

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00

#### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

**Supplier** 

**Telephone number**: +47 33 45 70 00 Jotun Norway (head office)

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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 :









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#### SECTION 2: Hazards identification

Signal word : Danger.

**Hazard statements** : H226 - Flammable liquid and vapour.

H336 - May cause drowsiness or dizziness.

H372 - Causes damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

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

sources. No smoking.

P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray.

P270 - Do not eat, drink or smoke when using this product.

**Response**: P391 - Collect spillage.

P314 - Get medical advice/attention if you feel unwell.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

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.

Supplemental label

elements

: Not applicable.

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

**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   | Туре    |
|--|--|-----------|--|---------|
| ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | REACH #:<br>01-2119458049-33<br>EC: 919-446-0<br>CAS: 64742-82-1 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372<br>(central nervous<br>system (CNS))<br>(inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411<br>EUH066 | [1] [2] |
| Aluminium powder (stabilized)  | EC: 231-072-3<br>CAS: 7429-90-5<br>Index: 013-002-00-1           | ≤10       | Flam. Sol. 1, H228<br>Water-react. 2, H261   | [2]     |
| hydrocarbons, C9, aromatics  | REACH #:   | ≤5        | Flam. Liq. 3, H226   | [1]     |

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| Aluflex      |  |   |
|--------------|--|---|
| SECTION 3: 0 | Composition/information on ingred                    | ients   |
|              | 01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6 | STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411 |
|              |  | See Section 16 for<br>the full text of the H<br>statements declared<br>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

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with

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

the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

: 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 toxic 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 combustion products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide 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.

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## 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 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 breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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

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

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.

#### **Seveso Directive - Reporting thresholds**

#### **Danger criteria**

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |
| E2  | 200 tonne                       | 500 tonne               |

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**

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name  | Exposure limit values   |
|--|---|
| ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | EH40/2005 WELs (United Kingdom (UK), 1/2005). STEL: 850 mg/m³ 15 minutes. Form: All forms   |
| Syones, aremaiss (£ 25%)   | STEL: 150 ppm 15 minutes. Form: All forms EH40/2005 WELs (United Kingdom (UK), 4/2020).   |
|  | TWA (RCP): 300 mg/m³ 8 hours. Form: All forms TWA (RCP): 52 ppm 8 hours. Form: All forms  |
| Aluminium powder (stabilized)  | EH40/2005 WELs (United Kingdom (UK), 1/2020).  TWA: 4 mg/m³ 8 hours. Form: respirable dust  TWA: 10 mg/m³ 8 hours. Form: inhalable dust |

#### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. 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  |
|--|------|-------------------------|------------------------|--------------------------------|----------|
| ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | DNEL | Long term<br>Inhalation | 330 mg/m³              | Workers                        | Systemic |
| ,  | DNEL | Long term Dermal        | 44 mg/kg<br>bw/day     | Workers                        | Systemic |
|  | DNEL | Long term<br>Inhalation | 71 mg/m³               | General population [Consumers] | Systemic |
|  | DNEL | Long term Dermal        | 26 mg/kg<br>bw/day     | General population [Consumers] | Systemic |
|  | DNEL | Long term Oral          | 26 mg/kg<br>bw/day     | General population [Consumers] | Systemic |
| Aluminium powder (stabilized)  | DNEL | Long term<br>Inhalation | 3.72 mg/m <sup>3</sup> |                                | Local    |

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

| <del>-</del>                |      |                         |                       |                                      |          |
|-----------------------------|------|-------------------------|-----------------------|--------------------------------------|----------|
|                             | DNEL | Long term<br>Inhalation | 3.72 mg/m³            | Workers                              | Systemic |
|                             | DNEL | Long term Oral          | 3.95 mg/<br>kg bw/day | General population                   | Systemic |
| hydrocarbons, C9, aromatics | DNEL | Long term Dermal        | 12.5 mg/<br>kg bw/day | Workers                              | Systemic |
|                             | DNEL | Long term<br>Inhalation | 151 mg/m³             | Workers                              | Systemic |
|                             | DNEL | Long term Dermal        | 7.5 mg/kg<br>bw/day   | General<br>population<br>[Consumers] | Systemic |
|                             | DNEL | Long term<br>Inhalation | 32 mg/m³              | General<br>population<br>[Consumers] | Systemic |
|                             | DNEL | Long term Oral          | 7.5 mg/kg<br>bw/day   | General population [Consumers]       | Systemic |

#### **PNECs**

No PNECs available

#### 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. 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: safety glasses with side-shields.

#### **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 (> 0.4 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.

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## SECTION 8: Exposure controls/personal protection

**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. 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.

: If workers are exposed to concentrations above the exposure limit, they must use a **Respiratory protection** 

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** 

: Do not allow to enter drains or watercourses.

controls

## 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 : Aluminium **Odour** Characteristic. **Odour threshold** : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

Lowest known value: 142 to 200°C (287.6 to 392°F)(hydrocarbons, C9-C12, nalkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 180.63°C

(357.1°F)

**Flammability** : Not applicable. Upper/lower flammability or

explosive limits

: 1.4 - 7.6%

: Closed cup: 38°C (100.4°F) Flash point

: Lowest known value: 256 to 266°C (492.8 to 510.8°F) (Fatty acids, C16-18 and **Auto-ignition temperature** 

C18-unsatd., Me esters).

**Decomposition temperature** 

pН

: Not available.

: Not applicable.

**Viscosity** Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Solubility(ies)

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

Partition coefficient: n-octanol/: Not available.

water

: Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, Vapour pressure n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 2.39

kPa (17.93 mm Hg) (at 20°C)

: 0.11 (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)) **Evaporation rate** 

compared with butyl acetate

: 0.948 g/cm<sup>3</sup> Density Vapour density : Not available. : Not available. **Explosive properties Oxidising properties** Not available.

**Particle characteristics** 

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## SECTION 9: Physical and chemical properties

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.

hazardous reactions
10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

products.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### **Acute toxicity**

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

#### **Acute toxicity estimates**

N/A

## **Irritation/Corrosion**

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

#### **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 effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

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## **SECTION 11: Toxicological information**

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 3 | -                 | Narcotic effects             |
| hydrocarbons, C9, aromatics   | Category 3 |                   | Respiratory tract irritation |
|   | Category 3 |                   | Narcotic effects             |

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

| Product/ingredient name  | Category   | Route of exposure | Target organs                   |
|--|------------|-------------------|---------------------------------|
| ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 1 |                   | central nervous<br>system (CNS) |

#### **Aspiration hazard**

| Product/ingredient name  | Result                         |
|--|--------------------------------|
| ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | ASPIRATION HAZARD - Category 1 |
| hydrocarbons, C9, aromatics  | ASPIRATION HAZARD - Category 1 |

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : May cause drowsiness or dizziness.

Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

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

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

General : Causes damage to organs through prolonged or repeated exposure.

Other information : None identified.

## **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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name   | Result                          | Species   | Exposure |
|---|---------------------------------|---|----------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Acute EC50 <10 mg/l             | Daphnia   | 48 hours |
| ,   | Acute IC50 <10 mg/l             | Algae   | 72 hours |
|   | Acute LC50 <10 mg/l             | Fish  | 96 hours |
| aluminium powder  | Acute LC50 38000 µg/l           | Daphnia - Water flea - Daphnia                                      | 48 hours |
| (stabilised)  |                                 | magna   |          |
|   | Acute LC50 120 μg/l Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Embryo | 96 hours |
|   | Chronic NOEC 9 mg/l Fresh water | Aquatic plants - Coontail -   | 3 days   |

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SECTION 12: Ecological information

Ceratophyllum demersum

| Ceratophyllum demersum                                      |          |
|---|----------|
| · · ·   | 40 hauma |
| hydrocarbons, C9, aromatics   Acute EC50 <10 mg/l   Daphnia | 48 hours |
| Acute IC50 <10 mg/l Algae                                   | 72 hours |
| Acute LC50 <10 mg/l Fish                                    | 96 hours |

**Conclusion/Summary** 

: Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | -                 | -          | Not readily      |
| hydrocarbons, C9, aromatics   | -                 | -          | Not readily      |

#### 12.3 Bioaccumulative potential

| Product/ingredient name                               | LogPow | BCF        | Potential |
|---|--------|------------|-----------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, | -      | 10 to 2500 | high      |
| aromatics (2-25%) hydrocarbons, C9, aromatics         | -      | 10 to 2500 | high      |

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

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

#### **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

## **Product**

**Methods of disposal** 

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

#### **Hazardous waste**

Yes.

#### Waste catalogue

| 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.

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## **SECTION 13: Disposal considerations**

| Type of packaging | Waste catalogue |  |
|-------------------|-----------------|--|
| 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. 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. Marine pollutant<br>(hydrocarbons,<br>C9-C12, n-alkanes,<br>isoalkanes, cyclics,<br>aromatics (2-25%)) | Paint  |
| 14.3 Transport<br>hazard class(es) | 3       | 3      | 3   | 3  |
| 14.4 Packing group                 | III     | III    | III   | III  |
| 14.5<br>Environmental<br>hazards   | Yes.    | Yes.   | Yes.  | Yes. The environmentally hazardous substance mark is not required. |

#### **Additional information**

ADR/RID

**IMDG** 

**IATA** 

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 30

Tunnel code (D/E)

ADN : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-E, S-E

: The environmentally hazardous substance mark may appear if required by other

transportation regulations.

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 Transport in bulk according to IMO instruments

: Not available.

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## SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/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.

### Ozone depleting substances

Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### **Persistent Organic Pollutants**

Not listed.

Annex XVII - Restrictions : Not applicable.

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

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

#### Category

P5c

E2

#### **EU regulations**

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

#### **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

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

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#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

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

EUH statement = GB 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

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| STOT SE 3, H336         | Calculation method    |
| STOT RE 1, H372         | Calculation method    |
| Aquatic Chronic 2, H411 | Calculation method    |

#### Full text of abbreviated H statements

| <b>⊮</b> 226 | Flammable liquid and vapour.                                    |
|--------------|---|
| H228         | Flammable solid.  |
| H261         | In contact with water releases flammable gases.                 |
| H304         | May be fatal if swallowed and enters airways.                   |
| H335         | May cause respiratory irritation.                               |
| H336         | May cause drowsiness or dizziness.                              |
| H372         | Causes damage to organs through prolonged or repeated exposure. |
| H411         | Toxic to aquatic life with long lasting effects.                |
| EUH066       | Repeated exposure may cause skin dryness or cracking.           |

#### Full text of classifications

| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                    |
|-------------------|--|
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                     |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                     |
| Flam. Sol. 1      | FLAMMABLE SOLIDS - Category 1                                      |
| STOT RE 1         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1    |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3      |
| Water-react. 2    | SUBSTANCES AND MIXTURES WHICH IN CONTACT WITH WATER EMIT FLAMMABLE |
|                   | GASES - Category 2   |

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Notice to reader

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