

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : 77 0003 0250 - OCTANE BOOSTER  
 Product code : 77 0003 0250

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

##### 1.2.1. Relevant identified uses

Function or use category : Fuel additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V.  
 NL– 1761 JA  
 The Netherlands  
 T +31 (0)78 6527652  
[technical@77lubricants.nl](mailto:technical@77lubricants.nl) - [www.77lubricants.nl](http://www.77lubricants.nl)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address                    | Emergency number | Comment                           |
|----------------|---|----------------------------|------------------|-----------------------------------|
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER   | +44 20 7188 7188 |                                   |
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital           | Grosvenor Road<br>BT12 6BA | 0344 892 0111    | Only for healthcare professionals |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225  
 Skin corrosion/irritation, Category 2 H315  
 Serious eye damage/eye irritation, Category 2 H319  
 Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
 Aspiration hazard, Category 1 H304

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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|                                | GHS02   | GHS07 | GHS08 |
|--------------------------------|---|-------|-------|
| Signal word (CLP)              | : Danger  |       |       |
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H304 - May be fatal if swallowed and enters airways.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H336 - May cause drowsiness or dizziness.  |       |       |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling. |       |       |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|------------------|---|
| Acetone<br>substance with national workplace exposure limit(s) (DE, ES, FR, GB, IT, NL, PT); substance with a Community workplace exposure limit   | CAS-No.: 67-64-1<br>EC-No.: 200-662-2<br>EC Index-No.: 606-001-00-8                                 | $\geq 25 - < 55$ | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   |
| Xylene<br>substance with national workplace exposure limit(s) (DE, ES, FR, GB, IT, NL); substance with a Community workplace exposure limit  | CAS-No.: 1330-20-7<br>EC-No.: 215-535-7<br>EC Index-No.: 601-022-00-9<br>REACH-no: 01-2119488216-32 | $\geq 25 - < 55$ | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315 |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)<br>substance with national workplace exposure limit(s) (ES); substance with a Community workplace exposure limit | CAS-No.: 64742-82-1<br>EC-No.: 919-446-0<br>REACH-no: 01-2119458049-33                              | $\geq 25 - < 55$ | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                       |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |

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First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.  
Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Eye irritation.  
Symptoms/effects after ingestion : Risk of lung oedema.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| Acetone (67-64-1)   |                                 |
|---|---------------------------------|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                                 |
| Local name  | Acetone                         |
| IOEL TWA  | 1210 mg/m <sup>3</sup>          |
| IOEL TWA [ppm]  | 500 ppm                         |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC |
| <b>United Kingdom - Occupational Exposure Limits</b>      |                                 |
| WEL TWA (OEL TWA) [1]                                     | 1210 mg/m <sup>3</sup>          |
| WEL TWA (OEL TWA) [2]                                     | 500 ppm                         |
| WEL STEL (OEL STEL)                                       | 3620 mg/m <sup>3</sup>          |
| WEL STEL (OEL STEL) [ppm]                                 | 1500 ppm                        |
| <b>Xylene (1330-20-7)</b>                                 |                                 |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                                 |
| Local name  | Xylene, mixed isomers, pure     |
| IOEL TWA  | 221 mg/m <sup>3</sup>           |
| IOEL TWA [ppm]  | 50 ppm                          |
| IOEL STEL   | 442 mg/m <sup>3</sup>           |
| IOEL STEL [ppm]   | 100 ppm                         |
| Remark  | Skin                            |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC |
| <b>United Kingdom - Occupational Exposure Limits</b>      |                                 |
| WEL TWA (OEL TWA) [1]                                     | 220 mg/m <sup>3</sup>           |

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| Xylene (1330-20-7)   |                               |
|--|-------------------------------|
| WEL TWA (OEL TWA) [2]  | 50 ppm                        |
| WEL STEL (OEL STEL)  | 441 mg/m <sup>3</sup>         |
| WEL STEL (OEL STEL) [ppm]  | 100 ppm                       |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1) |                               |
| EU - Indicative Occupational Exposure Limit (IOEL)                                   |                               |
| Local name   | White spirit Type 1           |
| IOEL TWA   | 116 mg/m <sup>3</sup>         |
| IOEL TWA [ppm]   | 20 ppm                        |
| IOEL STEL  | 290 mg/m <sup>3</sup>         |
| IOEL STEL [ppm]  | 50 ppm                        |
| Remark   | Skin. (Year of adoption 2007) |
| Regulatory reference   | SCOEL Recommendations         |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |                        |
|----------------|----------------------|-----------------|------------------------|
| Type           | Field of application | Characteristics | Standard               |
| Safety glasses | Droplet, Dust        | clear           | EN 166, EN 167, EN 168 |

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

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### Hand protection:

Protective gloves

| Hand protection |                        |                  |                |             |  |
|-----------------|------------------------|------------------|----------------|-------------|--|
| Type            | Material               | Permeation       | Thickness (mm) | Penetration | Standard                                 |
| Reusable gloves | Neoprene rubber (HNBR) | 2 (> 30 minutes) | 0,5            |             | EN ISO 374-1, EN 374-2, EN 374-3, EN 420 |

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Respiratory protection |  |   |                        |
|------------------------|--|---|------------------------|
| Device                 | Filter type  | Condition                                       | Standard               |
| Gas mask               | Type P1, Type P2, Type P3, ABEK, Filter AX (brown), Filter A2/B2 | Gas protection, Protection for Liquid particles | EN 136, EN 140, EN 405 |

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                       |
|---|---------------------------------------|
| Physical state                                  | : Liquid                              |
| Colour  | : Colourless.                         |
| Odour   | : Not available                       |
| Odour threshold                                 | : Not available                       |
| Melting point                                   | : Not applicable                      |
| Freezing point                                  | : Not available                       |
| Boiling point                                   | : 126 °C                              |
| Flammability                                    | : Highly flammable liquid and vapour. |
| Lower explosion limit                           | : Not available                       |
| Upper explosion limit                           | : Not available                       |
| Flash point                                     | : 30 °C                               |
| Auto-ignition temperature                       | : Not available                       |
| Decomposition temperature                       | : Not available                       |
| pH  | : Not available                       |
| Viscosity, kinematic                            | : Not available                       |
| Solubility                                      | : insoluble in water.                 |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                       |
| Vapour pressure                                 | : Not available                       |
| Vapour pressure at 50°C                         | : Not available                       |
| Density   | : Not available                       |
| Relative density                                | : 0.82 @20°C                          |
| Relative vapour density at 20°C                 | : Not available                       |
| Particle characteristics                        | : Not applicable                      |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

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### 9.2.2. Other safety characteristics

VOC content : 820 lb/gal

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Acetone (67-64-1)                           |                          |
|---|--------------------------|
| LD50 oral (rat)                             | 5800 mg/kg bodyweight    |
| LD50 dermal (rat)                           | > 15800 mg/kg bodyweight |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | 76 mg/l/4h               |

| Xylene (1330-20-7)                          |                         |
|---|-------------------------|
| LD50 oral                                   | 4300 mg/l               |
| LD50 dermal (rat)                           | > 1700 mg/kg bodyweight |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | 21.7 mg/l/4h            |

| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1) |  |
|--|--|
| LD50 oral (rat)  | 300 – 2000 mg/kg bodyweight OECD Guideline 401 |
| LD50 dermal (rabbit)   | 3400 mg/kg bodyweight OECD TG402               |
| LC50 inhalation (rat) (mg/l)   | > 13.1 mg/l OECD TG 402                        |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness.

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### Acetone (67-64-1)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

### Acetone (67-64-1)

|                        |                       |
|------------------------|-----------------------|
| LC50 - Fish [1]        | 5540 mg/l             |
| EC50 96h - Algae [1]   | 7200 mg/l             |
| NOEC chronic crustacea | 1.106 – 2.212 g/l 28d |

### Xylene (1330-20-7)

|                      |           |
|----------------------|-----------|
| LC50 - Fish [1]      | 15.7 mg/l |
| EC50 - Crustacea [1] | 8.5 mg/l  |

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | > 10 – < 30 mg/l Oncorhynchus mykiss (OECD 403) |
| EC50 - Crustacea [1] | > 10 – < 22 mg/l Daphnia magna (OECD 202)       |
| EC50 72h - Algae [1] | > 4.6 – < 10 mg/l OECD 201                      |

### 12.2. Persistence and degradability

#### Xylene (1330-20-7)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 100 %                  |

### 12.3. Bioaccumulative potential

#### Xylene (1330-20-7)

|   |         |
|---|---------|
| BCF - Fish [1]                                  | 15 – 21 |
| Bioconcentration factor (BCF REACH)             | 29      |
| Partition coefficient n-octanol/water (Log Pow) | 3.2     |

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)

|   |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 5 |
|---|---|



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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

Additional information

HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Flammable vapours may accumulate in the container.
- : HP3 - "Flammable:"
  - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
  - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
  - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
  - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
  - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
  - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
- HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
- HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
- HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
- HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |   |   |
| UN 1993   | UN 1993   | UN 1993   | UN 1993   | UN 1993   |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE / NAPHTHA (PETROLEUM), HEAVY HYDRODESULFUR FRACTION) | Flammable liquid, n.o.s. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE) |

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| ADR   | IMDG   | IATA   | ADN  | RID  |
|---|--|--|--|--|
| <b>Transport document description</b>   |  |  |  |  |
| UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE), 3, II, (D/E) | UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE / NAPHTHA (PETROLEUM), HEAVY HYDRODESULFUR FRACTION), 3, II | UN 1993 Flammable liquid, n.o.s. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE), 3, II | UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE), 3, II | UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, PROPAN-2-ONE, PROPANONE / XYLENE), 3, II |
| <b>14.3. Transport hazard class(es)</b>   |  |  |  |  |
| 3   | 3  | 3  | 3  | 3  |
|                    |   |             |           |           |
| <b>14.4. Packing group</b>  |  |  |  |  |
| II  | II   | II   | II   | II   |
| <b>14.5. Environmental hazards</b>  |  |  |  |  |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No  | Dangerous for the environment: No  | Dangerous for the environment: No  | Dangerous for the environment: No  |
| No supplementary information available  |  |  |  |  |

### 14.6. Special precautions for user

#### Overland transport

|   |                     |
|---|---------------------|
| Classification code (ADR)                                 | : F1                |
| Special provisions (ADR)                                  | : 274, 601, 640D    |
| Limited quantities (ADR)                                  | : 1I                |
| Excepted quantities (ADR)                                 | : E2                |
| Packing instructions (ADR)                                | : P001, IBC02, R001 |
| Mixed packing provisions (ADR)                            | : MP19              |
| Portable tank and bulk container instructions (ADR)       | : T7                |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP8, TP28    |
| Tank code (ADR)   | : LGBF              |
| Vehicle for tank carriage                                 | : FL                |
| Transport category (ADR)                                  | : 2                 |
| Special provisions for carriage - Operation (ADR)         | : S2, S20           |
| Hazard identification number (Kemler No.)                 | : 33                |
| Orange plates   | :                   |



|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •3YE |

#### Transport by sea

|                                 |         |
|---------------------------------|---------|
| Special provisions (IMDG)       | : 274   |
| Limited quantities (IMDG)       | : 1 L   |
| Excepted quantities (IMDG)      | : E2    |
| Packing instructions (IMDG)     | : P001  |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG)        | : T7    |

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Tank special provisions (IMDG) : TP1, TP28, TP8  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3H

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 601, 640D  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 274, 601, 640D  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### VOC Directive (2004/42)

VOC content : 820 lb/gal

### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name    | CAS-No. | Combined Nomenclature code (CN) | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---------|---------|---------------------------------|--|
| Acetone | 67-64-1 | 2914 11 00                      | ex 3824 99 92  |

Please see [https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives\\_en](https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en)

### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name    | CN designation | CAS-No. | CN code    | Category   | Threshold | Annex   |
|---------|----------------|---------|------------|------------|-----------|---------|
| Acetone |                | 67-64-1 | 2914 11 00 | Category 3 |           | Annex I |

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |

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### Abbreviations and acronyms:

|         |  |
|---------|--|
| IATA    | International Air Transport Association                                      |
| IMDG    | International Maritime Dangerous Goods                                       |
| LC50    | Median lethal concentration  |
| LD50    | Median lethal dose   |
| LOAEL   | Lowest Observed Adverse Effect Level   |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level   |
| NOEC    | No-Observed Effect Concentration   |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit  |
| PBT     | Persistent Bioaccumulative Toxic   |
| PNEC    | Predicted No-Effect Concentration  |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet  |
| STP     | Sewage treatment plant   |
| ThOD    | Theoretical oxygen demand (ThOD)   |
| TLM     | Median Tolerance Limit   |
| VOC     | Volatile Organic Compounds   |
| CAS-No. | Chemical Abstract Service number   |
| N.O.S.  | Not Otherwise Specified  |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties  |

### Full text of H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                               |
| Aquatic Chronic 2         | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1               | Aspiration hazard, Category 1                                     |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 2              | Flammable liquids, Category 2                                     |
| Flam. Liq. 3              | Flammable liquids, Category 3                                     |
| H225                      | Highly flammable liquid and vapour.                               |
| H226                      | Flammable liquid and vapour.                                      |
| H304                      | May be fatal if swallowed and enters airways.                     |
| H312                      | Harmful in contact with skin.                                     |
| H315                      | Causes skin irritation.   |
| H319                      | Causes serious eye irritation.                                    |
| H332                      | Harmful if inhaled.   |
| H336                      | May cause drowsiness or dizziness.                                |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H411                                | Toxic to aquatic life with long lasting effects.                       |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.