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|   | <b>Kerosine (petroleum)</b> | Issue date : 24/06/2021 |
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance  
Trade name : Kerosine (petroleum)  
EC Index : 649-404-00-4  
EC-No. : 232-366-4  
CAS-No. : 8008-20-6  
Formula : Unspecified

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

#### 1.2.2. Uses advised against

No additional information available

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

Mercuria Energy Trading B.V. supplying for and behalf of Mercuria Energy Trading S.A.  
Euclideslaan 131  
3584 BR Utrecht - Netherlands  
T +31 30 608 61 30 - F +31 30 254 11 26  
Technical support: +1 720 214 6215  
[REACH@Mercuria.com](mailto:REACH@Mercuria.com)

### 1.4. Emergency telephone number

Emergency number : +32 3 575 11 30 (SGS 24/7 Emergency Hotline)

| Country        | Official advisory body  | Address   | Emergency number  |
|----------------|---|---|---|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital  | PO Box 1297<br>Beaumont Road<br>9 Dublin                    | +353 1 809 2566<br>(Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0844 892 0111 (UK only, 24/7, healthcare professionals only)                                    |


## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226  
Skin Irrit. 2 H315  
STOT SE 3 H336  
Asp. Tox. 1 H304  
Aquatic Chronic 2 H411

Full text of H-statements: see section 16

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|   |                             |                         |

## 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word :

Danger

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting.  
P391 - Collect spillage.  
P501 - Dispose of contents and container to an approved waste disposal plant.

Listed in Annex VI :

EC Index-No. : 649-404-00-4

## 2.3. Other hazards

Other hazards :

Vapours can form explosive mixtures with air.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII


This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : Kerosine (petroleum)  
CAS-No. : 8008-20-6  
EC-No. : 232-366-4  
EC Index : 649-404-00-4

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| Substance name  | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|--|-----|--|
| Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] | (CAS-No.) 8008-20-6<br>(EC-No.) 232-366-4<br>(EC Index) 649-404-00-4 | 100 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<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

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| Additional advice | : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.  |
| Inhalation        | : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician. Give oxygen or artificial respiration if necessary. Get immediate medical advice/attention.  |
| Skin contact      | : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. In the event of a high pressure injection injury, worker should obtain immediate medical assistance. Contact with hot product will cause thermal burns. Immerse in cool water/wrap in wet bandages. Get medical advice/attention. |
| Eyes contact      | : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.   |
| Ingestion         | : Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical advice/attention.  |

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

|              |  |
|--------------|--|
| Inhalation   | : May cause drowsiness or dizziness. Impaired consciousness. The following symptoms may occur: Vomiting. Nausea. Headache.                               |
| Skin contact | : Causes skin irritation. The following symptoms may occur: erythema (redness). Dry skin.  |
| Eyes contact | : The following symptoms may occur: erythema (redness). Irritation.  |
| Ingestion    | : May be fatal if swallowed and enters airways. The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |


### 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   | : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. |
| Unsuitable extinguishing media | : Strong water jet.  |

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

- Specific hazards : Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting.
- Explosion hazard : Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Hydrogen sulfide. Sulphur oxides. sulphuric acid.

## **5.3. Advice for firefighters**

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## **SECTION 6: Accidental release measures**

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

#### **6.1.1. For non-emergency personnel**

- For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools. As appropriate : Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

#### **6.1.2. For emergency responders**

- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### **6.2. Environmental precautions**


Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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

- Methods for cleaning up : Stop leak if safe to do so. Dam up. Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone, Collect in closed and suitable containers for disposal. Clean-up methods - large spillage: Recover large spills by pumping (use an explosion proof or hand pump), Keep in suitable, closed containers for disposal. Cover the spilled liquid product with foam to slow down evaporation. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Dispose of waste product or used containers according to local regulations.

### **6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with combustibles... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools. As appropriate : Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.
- Hygiene measures : Keep good industrial hygiene. Wash hands immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Separate working clothes from town clothes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

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

- Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep in properly labelled containers. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not store near or with any of the incompatible materials listed in section 10.
- Incompatible materials : Oxidising agents.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Packaging materials : Keep only in the original container. Suitable material: Mild steel, Stainless steel.


### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| <b>Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6)</b> |                      |   |
|--|----------------------|---|
| Belgium  | OEL TWA              | 200 mg/m <sup>3</sup> (application limited to exposure conditions to negligible aerosols-total hydrocarbon vapor) |
| Bulgaria   | OEL TWA              | 300 mg/m <sup>3</sup>   |
| Poland   | NDS (OEL TWA)        | 100 mg/m <sup>3</sup>   |
| Poland   | NDSch (OEL STEL)     | 300 mg/m <sup>3</sup>   |
| Portugal   | OEL TWA [ppm]        | 200 ppm (restricted to conditions in which there are negligible aerosol exposures)                                |
| Spain  | VLA-ED (OEL TWA) [1] | 200 mg/m <sup>3</sup> (aviation fuel)   |

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|             |               |  |
|-------------|---------------|--|
| USA - ACGIH | ACGIH OEL TWA | 200 mg/m <sup>3</sup> (application restricted to conditions in which there are negligible aerosol exposures-total hydrocarbon vapor (Kerosene/Jet fuels) |
| USA - NIOSH | NIOSH REL TWA | 100 mg/m <sup>3</sup>  |


## 8.2. Exposure controls

|                               |   |
|-------------------------------|---|
| Engineering measure(s)        | : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling . Use only outdoors or in a well-ventilated area. Store locked up. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.                |
| Personal protective equipment | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.   |
| Hand protection               | : Wear chemically resistant gloves (tested to EN374) . Suitable material: NBR (Nitrile rubber) (BTT > 8 h). Viton ® (BTT > 8 h). Viton ® / butyl-rubber (BTT > 8 h). Barrier® (PE/PA/PE) (BTT > 8 h). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  |
| Eye protection                | : Use suitable eye protection (EN166): goggles  |
| Body protection               | : Wear suitable coveralls to prevent exposure to the skin. Use chemically protective clothing. Antistatic clothing. In case of large spillages: Wear full chemical protective clothing.   |
| Respiratory protection        | : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK / P (EN 141). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137) |
| Thermal hazard protection     | : Not required for normal conditions of use. Use dedicated equipment.   |

## SECTION 9: Physical and chemical properties

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

|  |  |
|--|--|
| Physical state                             | : Liquid   |
| Appearance                                 | : liquid.  |
| Colour                                     | : No data available.   |
| Odour                                      | : Hydrocarbons.  |
| Odour threshold                            | : No data available  |
| pH   | : No data available  |
| Relative evaporation rate (butylacetate=1) | : No data available  |
| Melting / freezing point                   | : -48 – -26 °C   |
| Freezing point                             | : No data available  |
| Initial boiling point and boiling range    | : 175 – 325 °C   |
| Flash point                                | : 38 – 72 °C (including Kerosene, range oil, and Jet fuel A) |

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|                                       |   |
|---------------------------------------|---|
| Auto-ignition temperature             | : 210 °C  |
| Decomposition temperature             | : No data available   |
| Flammability (solid, gas)             | : Not applicable, liquid  |
| Vapour pressure                       | : No data available   |
| Vapour density                        | : No data available   |
| Relative density                      | : No data available   |
| Density                               | : 0,79 – 0,82 g/cm <sup>3</sup> (at 15 °C)  |
| Solubility                            | : No additional information available.<br>Water: < 0,02 g/l   |
| Partition coefficient n-octanol/water | : No data available   |
| Kinematic viscosity                   | : No data available   |
| Dynamic viscosity                     | : No data available   |
| Explosive properties                  | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.                        |
| Oxidising properties                  | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits                      | : No data available   |
| Particle size                         | : Not applicable  |
| Particle size distribution            | : Not applicable  |
| Particle shape                        | : Not applicable  |
| Particle aspect ratio                 | : Not applicable  |
| Particle aggregation state            | : Not applicable  |
| Particle agglomeration state          | : Not applicable  |
| Particle specific surface area        | : Not applicable  |
| Particle dustiness                    | : Not applicable  |

## **9.2. Other information**

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

No additional information available

### **9.2.2. Other safety characteristics**

No additional information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**


Flammable liquid and vapour. Reference to other sections 10.4 & 10.5.

### **10.2. Chemical stability**

Stable at ambient temperature and under normal conditions of use.

### **10.3. Possibility of hazardous reactions**

Vapours may form explosive mixture with air.

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#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

#### 10.5. Incompatible materials

oxidising substances. See Section 7 for information on safe handling.

#### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Reference to other sections 5.2.

### SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

**Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6)**

|                                 |  |
|---------------------------------|--|
| LD50/oral/rat                   | > 5000 mg/kg OECD Test Guideline 401   |
| LD50/dermal/rabbit              | > 2000 mg/kg OECD 434                  |
| LC50/inhalation/4h/rat          | > 5,28 mg/l/4h                         |
| LC50 Inhalation - Rat (Vapours) | > 5,28 mg/l/4h OECD Test Guideline 403 |

Skin corrosion/irritation : Causes skin irritation.  
pH: No data available

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

**Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6)**

|                            |                                    |
|----------------------------|------------------------------------|
| NOAEL (oral, rat, 90 days) | 750 mg/kg bodyweight/day           |
| NOAEC, Inhalation          | ≥ 24 mg/m <sup>3</sup> (28 days)   |
| NOAEL, Dermal              | ≥ 400 mg/kg bw/day (28 days)       |
| NOAEL, Inhalation          | ≥ 1000 mg/m <sup>3</sup> (90 days) |
| NOAEL, Inhalation          | 750 mg/kg bw/day (90 days)         |


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

#### **Kerosine (petroleum) (8008-20-6)**

|                     |                   |
|---------------------|-------------------|
| Kinematic viscosity | No data available |
|---------------------|-------------------|

Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
Reference to other sections 4.2.



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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

### 11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections 4.2

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Toxic to aquatic life with long lasting effects.

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

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

**Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6)**

|                        |                                      |
|------------------------|--------------------------------------|
| LC50 - Fish [1]        | 2 – 5 mg/l (OECD test Guideline 203) |
| EC50 - Crustacea [1]   | 1,4 mg/l (OECD test guideline 202)   |
| ErC50 algae            | 1 – 3 mg/l (OECD test guideline 201) |
| NOEC (chronic)         | daphnia 0,48 mg/l (NOEL)             |
| NOEC chronic fish      | 0,098 mg/l (NOEL)                    |
| NOEC chronic crustacea | 0,48 mg/l                            |

### 12.2. Persistence and degradability

#### Kerosine (petroleum) (8008-20-6)

Persistence and degradability : No data available.


### 12.3. Bioaccumulative potential

#### Kerosine (petroleum) (8008-20-6)

Partition coefficient n-octanol/water : No data available

**Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6)**

Partition coefficient n-octanol/water : study scientifically unjustified

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#### 12.4. Mobility in soil

| Kerosine (petroleum) (8008-20-6) |   |
|----------------------------------|---|
| Ecology - soil                   | No data available. Substance is complex UVCB. |

| Kerosine (petroleum); Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] (8008-20-6) |              |
|---|--------------|
| Surface tension   | not relevant |

#### 12.5. Results of PBT and vPvB assessment

| Kerosine (petroleum) (8008-20-6)   |  |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Do not allow to enter into surface water or drains. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.


Additional information : Never use pressure to empty container. Do not pierce or burn, even after use. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.






European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14: Transport information

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

| ADR                                   | IMDG                             | IATA                      | ADN                       | RID                       |
|---------------------------------------|----------------------------------|---------------------------|---------------------------|---------------------------|
| <b>14.1. UN number</b>                |                                  |                           |                           |                           |
| 1223                                  | 1223                             | 1223                      | 1223                      | 1223                      |
| <b>14.2. UN proper shipping name</b>  |                                  |                           |                           |                           |
| KEROSENE                              | KEROSENE                         | Kerosene                  | KEROSENE                  | KEROSENE                  |
| <b>Transport document description</b> |                                  |                           |                           |                           |
| UN 1223 KEROSENE, 3, III,             | UN 1223 KEROSENE, 3, III, MARINE | UN 1223 Kerosene, 3, III, | UN 1223 KEROSENE, 3, III, | UN 1223 KEROSENE, 3, III, |

|   |                             |                         |
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| ADR  | IMDG  | IATA  | ADN  | RID   |
|--|---|---|--|---|
| ENVIRONMENTALLY HAZARDOUS  | POLLUTANT/ENVIRONMENTALLY HAZARDOUS   | ENVIRONMENTALLY HAZARDOUS   | ENVIRONMENTALLY HAZARDOUS  | ENVIRONMENTALLY HAZARDOUS   |
| <b>14.3. Transport hazard class(es)</b>  |   |   |  |   |
| 3  | 3   | 3   | 3  | 3   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>   |   |   |  |   |
| III  | III   | III   | III  | III   |
| <b>14.5. Environmental hazards</b>   |   |   |  |   |
| Dangerous for the environment : Yes  | Dangerous for the environment : Yes<br>Marine pollutant : Yes                     | Dangerous for the environment : Yes   | Dangerous for the environment : Yes  | Dangerous for the environment : Yes   |
| ADN : N2   |   |   |  |   |

#### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport


Classification code (ADR) : F1  
 Special provisions : 363  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P001, IBC03, LP01, R001  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T2  
 Portable tank and bulk container special provisions (ADR) : TP2  
 Tank code (ADR) : LGBF  
 Vehicle for tank carriage : FL  
 Transport category (ADR) : 3  
 Special provisions for carriage - Packages (ADR) : V12  
 Special provisions for carriage - Operation (ADR) : S2  
 Hazard identification number (Kemler No.) : 30  
 Orange plates : 

|      |
|------|
| 30   |
| 1223 |

  
 EAC code : 3Y

#### - Transport by sea

Special provisions (IMDG) : 363

|   |                             |                         |
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Limited quantities (IMDG) : 5 L  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : P001, LP01  
 IBC packing instructions (IMDG) : IBC03  
 Tank instructions (IMDG) : T2  
 Tank special provisions (IMDG) : TP2  
 EmS-No. (Fire) : F-E  
 EmS-No. (Spillage) : S-E  
 Stowage category (IMDG) : A  
 Properties and observations (IMDG) : Immiscible with water.

**- Air transport**


PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y344  
 PCA limited quantity max net quantity (IATA) : 10L  
 PCA packing instructions (IATA) : 355  
 PCA max net quantity (IATA) : 60L  
 CAO packing instructions (IATA) : 366  
 CAO max net quantity (IATA) : 220L  
 Special provisions (IATA) : A224  
 ERG code (IATA) : 3L

**- Inland waterway transport**

Classification code (ADN) : F1  
 Special provisions (ADN) : 363  
 Limited quantities (ADN) : 5 L  
 Excepted quantities (ADN) : E1  
 Carriage permitted (ADN) : T  
 Equipment required (ADN) : PP, EX, A  
 Ventilation (ADN) : VE01  
 Number of blue cones/lights (ADN) : 0

**- Rail transport**

Classification code (RID) : F1  
 Special provisions (RID) : 363  
 Limited quantities (RID) : 5L  
 Excepted quantities (RID) : E1  
 Packing instructions (RID) : P001, IBC03, LP01, R001  
 Mixed packing provisions (RID) : MP19  
 Portable tank and bulk container instructions (RID) : T2  
 Portable tank and bulk container special provisions (RID) : TP2  
 Tank codes for RID tanks (RID) : LGBF  
 Transport category (RID) : 3  
 Special provisions for carriage – Packages (RID) : W12

|   |                             |                         |
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Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

**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**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |   |
|--|---|
| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F  | Kerosine (petroleum) ; Kerosine (petroleum);<br>Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10   | Kerosine (petroleum) ; Kerosine (petroleum);<br>Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] |
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   | Kerosine (petroleum) ; Kerosine (petroleum);<br>Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | Kerosine (petroleum) ; Kerosine (petroleum);<br>Straight run kerosine; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (320°F to 554°F).] |


Kerosine (petroleum) is not on the REACH Candidate List

Kerosine (petroleum) is not on the REACH Annex XIV List

**15.1.2. National regulations**

**France**

| No ICPE   | Installations classées<br>Désignation de la rubrique  | Code Régime | Rayon |
|-----------|---|-------------|-------|
| 4331.text | Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330.<br>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : |             |       |

|   |                             |                         |
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|           |   |    |   |
|-----------|---|----|---|
| 4331.1    | 1. Supérieure ou égale à 1000 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.   | A  | 2 |
| 4331.2    | 2. Supérieure ou égale à 100 t mais inférieure à 1000 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.   | E  |   |
| 4331.3    | 3. Supérieure ou égale à 50 t mais inférieure à 100 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.   | DC |   |
| 4511.text | Dangereux pour l'environnement aquatique de catégorie chronique 2.  |    |   |
| 4511.1    | La quantité totale susceptible d'être présente dans l'installation étant :<br>1. Supérieure ou égale à 200 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 200 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 500 t.                         | A  | 1 |
| 4511.2    | La quantité totale susceptible d'être présente dans l'installation étant :<br>2. Supérieure ou égale à 100 t mais inférieure à 200 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 200 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 500 t. | DC |   |

#### Germany

Regulatory reference : WGK 2, Significantly hazardous to water  
Hazardous Incident Ordinance (12. BlmSchV) : Listed in the 12. BlmSchV (Annex I) under: 1.2.5.3  
Quantity threshold for operational area under § 1 para. 1  
- Sentence 1: 5000000 kg  
- Sentence 2: 50000000 kg


#### Netherlands

Waterbezwaarlijkheid : 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (A)  
SZW-lijst van kankerverwekkende stoffen : Kerosine (petroleum) is listed  
SZW-lijst van mutagene stoffen : Kerosine (petroleum) is listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed  
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

|   |                             |                         |
|---|-----------------------------|-------------------------|
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|   |                             |                         |

No chemical safety assessment has been carried out


### SECTION 16: Other information

Indication of changes:

|      |  |          |  |
|------|--|----------|--|
| 2.2  | Precautionary statements (CLP)   | Modified |  |
| 5.2  | Explosion hazard   | Modified |  |
| 5.2  | Specific hazards   | Modified |  |
| 7.2  | Incompatible materials   | Modified |  |
| 7.2  | Technical measures   | Modified |  |
| 9.1  | Oxidising properties   | Modified |  |
| 9.2  | Information with regard to physical hazard classes                           | Added    |  |
| 9.2  | Other safety characteristics   | Added    |  |
| 12.6 | Adverse effects on the environment caused by endocrine disrupting properties | Added    |  |
| 14.7 | Maritime transport in bulk according to IMO instruments                      | Modified |  |
| 15.1 | Installations classées   | Modified |  |
| 15.1 | German storage class (LGK)   | Added    |  |
| 15.1 | Waterbezwaarlijkheid   | Modified |  |

Abbreviations and acronyms:

|  |   |
|--|---|
|  | DNEL = Derived No Effect Level  |
|  | DMEL = Derived Minimal Effect level                                     |
|  | PNEC = Predicted No Effect Concentration                                |
|  | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs) |
|  | TWA = time weighted average   |
|  | LC50 = Median lethal concentration                                      |
|  | LD50 = Median lethal dose   |
|  | LL50 = Median lethal level  |
|  | EC50 = Median Effective Concentration                                   |
|  | EL50 = Median effective level   |
|  | ErC50 = EC50 in terms of reduction of growth rate                       |
|  | ErL50 = EL50 in terms of reduction of growth rate                       |
|  | NOEL = no-observed-effect level   |
|  | NOEC = No observed effect concentration                                 |
|  | NOELR = No observed effect loading rate                                 |
|  | NOAEC = No observed adverse effect concentration                        |
|  | NOAEL = No observed adverse effect level                                |
|  | EWC = European waste catalogue  |
|  | NA = Not applicable   |
|  | N.O.S. = Not Otherwise Specified  |
|  | VOC = Volatile organic compounds  |
|  | Quantitative structure-activity relationship (QSAR)                     |

|   |                             |                         |
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|  |   |
|--|---|
|  | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin<br>ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route<br>CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC<br>IATA = International Air Transport Association<br>IMDG = International Maritime Dangerous Goods Code<br>LEL = Lower Explosive Limit/Lower Explosion Limit<br>UEL = Upper Explosion Limit/Upper Explosive Limit<br>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
|  | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)  |
|  | ABM = Algemene beoordelingsmethodiek  |
|  | STOT = Specific Target Organ Toxicity   |
|  | BTT = Breakthrough time (maximum wearing time)  |

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Information Supplier. European Chemicals Agency LOLI.

Training advice : Manipulations are to be done only by qualified and authorised persons. Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

|                   |  |
|-------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2      |
| Asp. Tox. 1       | Aspiration hazard, Category 1  |
| Flam. Liq. 3      | Flammable liquids, Category 3  |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                                  |
| STOT SE 3         | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H226              | Flammable liquid and vapour.   |
| H304              | May be fatal if swallowed and enters airways.                          |
| H315              | Causes skin irritation.  |
| H336              | May cause drowsiness or dizziness.                                     |
| H411              | Toxic to aquatic life with long lasting effects.                       |

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
 Classification according to Regulation (EC) No. 1272/2008 [CLP]  
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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