

Jet Fuel A-1

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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/designation | : Jet Fuel A-1 |
| Chemical name | : Kerosine (petroleum) |
| EC Index | : 649-404-00-4 |
| EC-No. | : 232-366-4 |
| CAS-No. | : 8008-20-6 |
| Formula | : Unspecified |
| Synonymes | : Kerosene / Kerosine / Kerosine (petroleum) / DEODORIZED KEROSENE / Kerosine, petroleum (Straight Run, Kerosene (petroleum). A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 180-300°C.) / Kerosene, jet fuel / Kerosene, jet fuels / Kerosine fraction petroleum / Lamp oil / Kerosene/Jet fuels / Kerosenes (including jet fuels) |
| 1.2. Relevant identified uses of the | substance or mixture and uses advised against |

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture

: Industrial use,Professional uses,Consumer use: Use as a fuel

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

PETROCAS ENERGY LTD AKARA BLDG, 24 DE CASTRO STREET, WICKHAMS CAY 1,ROAD TOWN TORTOLA - Virgin Islands, British T +357 25 800 422 g.gvetadze@petrocasenergy.com

1.4. Emergency telephone number

| Country | Official advisory body | Address | Emergency number |
|----------------|--|---|--|
| Ireland | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | +353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7) |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0844 892 0111 (UK only, 24/7, healthcare professionals only) |

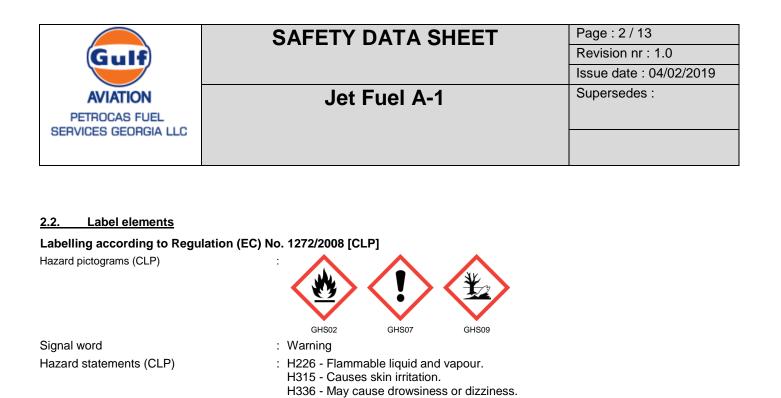
SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3H226Skin Irrit. 2H315STOT SE 3H336Aquatic Chronic 2H411

Full text of H statements : see section 16



Precautionary statements (CLP)

| tatements (CLP) | P102 - Keep out of reach of children. 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 - IF SWALLOWED: Immediately call a POISON CENTER/doctor |

H411 - Toxic to aquatic life with long lasting effects.

Listed in Annex VI

2.3. Other hazards

Other hazards

: Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Not applicable.

P501 - Dispose of contents/container to an approved waste disposal plant.

| SECTION 3: Composition/information on ingredients | | |
|---|----------------|--|
| 3.1. Substances | | |
| Substance name | : Jet Fuel A-1 | |
| CAS-No. | : 8008-20-6 | |
| EC-No. | : 232-366-4 | |
| EC Index | : 649-404-00-4 | |

P331 - Do NOT induce vomiting.

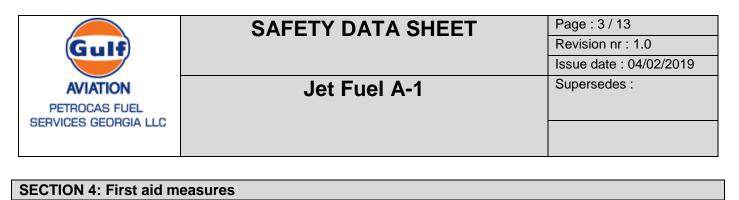
: EC Index-No. : 649-404-00-4

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------|--|-----|---|
| Kerosine (petroleum) | (CAS-No.) 8008-20-6 (EC-No.) 232-366-4 (EC Index) 649-404-00-4 | 100 | Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

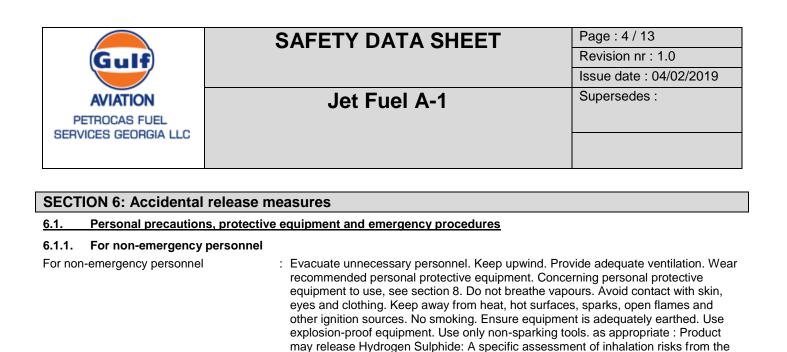


| 4.1. Description of first aid measure | <u>es</u> | |
|--|--|--|
| Additional advice | : First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. | |
| Inhalation | : Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, consult always a physician. | |
| Skin contact | : Take off contaminated clothing. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. | |
| 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. Get medical advice/attention. | |
| 4.2. Most important symptoms and effects, both acute and delayed | | |
| Inhalation | : May cause drowsiness or dizziness. Vomiting. Headache. Impaired consciousness. Nausea. | |
| Skin contact | : Causes skin irritation. Redness. Dry skin. | |
| Eyes contact | : May cause eye irritation. Redness. | |
| Ingestion | : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. | |

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

No data available.

| SECTION 5: Firefighting measures | | | |
|--|---|--|--|
| 5.1. Extinguishing media | | | |
| Suitable extinguishing media | : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. Sand. | | |
| Unsuitable extinguishing media | : Strong water jet. | | |
| 5.2. Special hazards arising from the substance or mixture | | | |
| Specific hazards | Flammable liquid and vapour. Heating causes rise in pressure with risk of bursting. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Can form explosive mixture with air. Hazardous decomposition products : Carbon oxides. Organic compounds. (as appropriate : Sulphur oxides. Hydrogen sulfide (H2S). 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. | | |



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.

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.

6.2. 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 the liquid spill. Small quantities of liquid spill: take
up in non-combustible absorbent material and shovel into container for disposal.
Recover large spills by pumping (use an explosion proof or hand pump). Place in a
suitable container for disposal in accordance with the waste regulations (see Section
13). This material and its container must be disposed of in a safe way, and as per
local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

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

| 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 vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. 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 and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. | | |

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| SERVICES GEORGIA LLC | | |
| | | |

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.

Packaging materials

: Keep only in the original container.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Jet Fuel A-1 (8008-20-6) | | | |
|--------------------------|--------------------------------------|--|--|
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 100 mg/m ³ | |
| Kerosine (petroleum) (8 | 008-20-6) | | |
| Belgium | Limit value (mg/m ³) | 200 mg/m ³ (application limited to exposure conditions to negligible aerosols-total hydrocarbon vapor) | |
| Bulgaria | OEL TWA (mg/m ³) | 300 mg/m ³ | |
| Poland | NDS (mg/m ³) | 100 mg/m ³ | |
| Poland | NDSCh (mg/m ³) | 300 mg/m ³ | |
| Portugal | OEL TWA (ppm) | 200 ppm (restricted to conditions in which there are negligible aerosol exposures) | |
| Spain | VLA-ED (mg/m ³) | 200 mg/m ³ (aviation fuel) | |
| USA - ACGIH | ACGIH TWA (mg/m³) | 200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures-total hydrocarbon vapor) | |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 100 mg/m ³ | |

Additional information

: Personal air monitoring :. Room air monitoring. Recommended monitoring procedures

8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 . Use only outdoors or in a well-ventilated area. 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.

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| | | | |
| Hand protection | : | Wear chemically resistant gloves (tested to EN374) . Tychem. VITON gloves. Thickness 0.3 mm. Breakthr the protective gloves resistant to chemicals must be o specific working place concentration and quantity of h | ough time : 8h. The quality of chosen as a function of the |
| 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. Wear suitable protective clothing. | |
| Respiratory protection | : | : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (EN 140). Full face mask (EN 136). Filter type: A. 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 | ated equipment. |
| Environmental exposure contro | ols : | Avoid release to the environment. Comply with applic protection legislation. | able Community environmental |

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 | : No data available. | |
| Odour threshold | : No data available | |
| рН | : No data available | |
| Relative evaporation rate (butylacetate=1) | : No data available | |
| Melting / freezing point | : No data available | |
| Freezing point | : -50 °C | |
| Initial boiling point and boiling range | : 150 - 250 °C | |
| Flash point | : >28 °C | |
| Auto-ignition temperature | : No data available | |
| 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 ³ (at 15 °C) | |
| Solubility | : Water: No data available | |
| 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 | |
| | | |



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9.2. Other information

No data 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 under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Safe handling: see section 7.

10.5. Incompatible materials

Oxidising substances. Safe handling: see section 7.

10.6. Hazardous decomposition products

Reference to other sections: 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| Jet Fuel A-1 (8008-20-6) | |
|-----------------------------------|--|
| LD50/oral/rat | > 5000 mg/kg |
| LD50/dermal/rabbit | > 2000 mg/kg |
| LC50/inhalation/4h/rat | > 5,28 mg/l |
| Kerosine (petroleum) (8008-20-6) | |
| LD50/oral/rat | > 5000 mg/kg |
| LD50/dermal/rabbit | > 2000 mg/kg |
| LC50/inhalation/4h/rat | > 5,28 mg/l (Exposure time: 4 h) |
| 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.) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met.) |
| Other information | : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4. |

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties

: Toxic to aquatic life with long lasting effects.

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| 12.2. Persistence and degradability | |
|---|--|
| Jet Fuel A-1 (8008-20-6) | |
| Persistence and degradability | No data available. Substance is complex UVCB. |
| 12.3. Bioaccumulative potential | |
| Jet Fuel A-1 (8008-20-6) | |
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No data available. Substance is complex UVCB. |
| 12.4. Mobility in soil | |
| Jet Fuel A-1 (8008-20-6) | |
| Mobility in soil | No data available |
| 12.5. Results of PBT and vPvB assess | sment |
| Jet Fuel A-1 (8008-20-6) | |
| Results of PBT assessment | No data available |
| 12.6. Other adverse effects | |
| Other adverse effects | : No data available. |
| SECTION 13: Disposal considerat | tions |
| 13.1. Waste treatment methods | |
| Product/Packaging disposal recommendations | : Avoid release to the environment. Dispose of empty containers and wastes safely. Safe handling: see section 7. 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. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container. |
| European waste catalogue (2001/573/EC, | : This material and its container must be disposed of as hazardous waste |

European waste catalogue (2001/573/EC, 55/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

| SECTION 14: Transport information | | | | | | |
|---|---|---|---|---|--|--|
| In accordance with ADR / | In accordance with ADR / RID / IMDG / IATA / ADN | | | | | |
| ADR | IMDG | IATA | ADN | RID | | |
| <u>14.1. UN number</u> | | | | | | |
| 1863 | 1863 | 1863 | 1863 | 1863 | | |
| 14.2. UN proper ship | ping name | | • | | | |
| FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)) | FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)) | Fuel, aviation, turbine engine (Kerosine (petroleum)) | FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)) | FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)) | | |
| Transport document description | | | | | | |
| UN 1863 FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1863 FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)), 3, III, MARINE POLLUTANT/ENVIRO NMENTALLY HAZARDOUS | UN 1863 Fuel, aviation, turbine engine (Kerosine (petroleum)), 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1863 FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)), 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1863 FUEL, AVIATION, TURBINE ENGINE (Kerosine (petroleum)), 3, III, ENVIRONMENTALLY HAZARDOUS | | |
| 14.3. Transport hazard class(es) | | | | | | |
| 3 | 3 | 3 | 3 | 3 | | |

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| | MDG | | | |

| ADR | IMDG | ΙΑΤΑ | ADN | RID |
|--|-----------------------------|------|-----|-----|
| | | | | |
| 14.4. Packing group | | | | |
| 111 | === | III | Ш | III |
| 14.5. Environmental | 14.5. Environmental hazards | | | |
| Dangerous for the environment : YesDangerous for the environment : Yes | | | | |
| No supplementary information available | | | | |

| <u>14.6.</u> | Special precautions for user |
|--------------|------------------------------|
| Specia | I precautions for user |

| : | No | data | avai | lable |
|---|----|------|------|-------|
| | | | | |

- Overland transport

| Overland transport | |
|---|---------------------------|
| Classification code (ADR) | : F1 |
| Special provisions | : 664 |
| Limited quantities (ADR) | : 51 |
| 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) | : TP1 |
| 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 | ² 30 |
| | 1863 |
| Tunnel restriction code | : D/E |
| EAC code | : 3YE |
| - Transport by sea | |
| Special provisions (IMDG) | : 223 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T2 |
| Tank special provisions (IMDG) | : TP1 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : A |
| Properties and observations (IMDG) | : Immiscible with water. |



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| - 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) | : A3 |
| ERG code (IATA) | : 3L |
| - Inland waterway transport | |
| Classification code (ADN) | : F1 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : Т |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 0 |
| - Rail transport | |
| Classification code (RID) | : F1 |
| 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) | : TP1 |
| Tank codes for RID tanks (RID) | : LGBF |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Packages (RID) | : W12 |
| Colis express (express parcels) (RID) | : CE4 |
| Hazard identification number (RID) | : 30 |
| 14.7 Transport in bulk according to A | nney II of MARPOL 73/78 and the IB |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC

: No data available.

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(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) |
|--|----------------------|
| 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) |

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| | | |

| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Kerosine (petroleum) |
|--|----------------------|
| 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) |

Jet Fuel A-1 is not on the REACH Candidate List Jet Fuel A-1 is not on the REACH Annex XIV List

15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

Germany

| Reference to AwSV | : Water hazard class (WGK) 2, Significantly hazardous to water |
|---|--|
| German storage class (LGK) | : LGK 3 - Flammable liquids |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) |

Netherlands

| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed |
|---|---|
| SZW-lijst van mutagene stoffen | : The substance is not 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 | |
| Classification remarks | : Emergency management guidelines for the storage of flammable liquids must be followed |

15.2. Chemical safety assessment

SECTION 16: Other information

For this substance a chemical safety assessment has not been carried out

| Indication of changes: | | | |
|------------------------|--------------------|----------|--|
| 4.2 | Symptoms/effects | Modified | |
| 7.2 | Storage conditions | Modified | |
| 8.2 | Exposure controls | Added | |



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| 12.1 | Environmental properties | Modified | |
|------|-----------------------------|----------|--|
| 16 | Training advice | Added | |

| bbreviat | ions and acronyms: |
|----------|---|
| | ABM = Algemene beoordelingsmethodiek |
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit |
| | REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | BTT = Breakthrough time (maximum wearing time) |
| | DMEL = Derived Minimal Effect level |
| | DNEL = Derived No Effect 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 |
| | EWC = European waste catalogue |
| | LC50 = Median lethal concentration |
| | LD50 = Median lethal dose |
| | LL50 = Median lethal level |
| | NA = Not applicable |
| | NOEC = No observed effect concentration |
| | NOEL: no-observed-effect level |
| | NOELR = No observed effect loading rate |
| | NOAEC = No observed adverse effect concentration |
| | NOAEL = No observed adverse effect level |
| | N.O.S. = Not Otherwise Specified |
| | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs) |
| | PNEC = Predicted No Effect Concentration |
| | Quantitative structure-activity relationship (QSAR) |
| | STOT = Specific Target Organ Toxicity |
| | TWA = time weighted average |
| | VOC = Volatile organic compounds |
| | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) |

Sources of key data used to compile the European Chemicals Agency, INCHEM, LOLI. datasheet

Training advice

: Training staff on good practice.

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. |



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According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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