



Safety Data Sheet

Light Cycle Oil

Version 1.00

Revision Date 31.10.2022

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Light Cycle Oil

Synonyms LCO

Relevant identified uses of the substance or mixture and uses advised against

Use Fuel Oil

Manufacturer or supplier's details

Company Sasol Oil Pty (Ltd)

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Sandton
2090
South Africa

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+65 3158 1074 (Asia Pacific)
+86 10 5100 3039 (China)
+27 (0)17 610 4444 (South Africa)
+61 (2) 8014 4558 (Australia)

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SECTION 2. Hazards identification

Classification of the substance or mixture

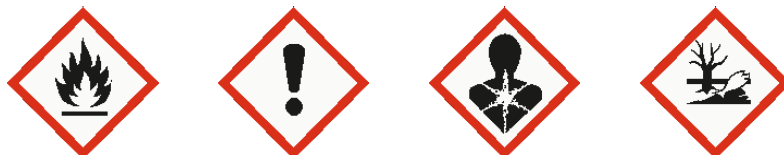
South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Classification

| | |
|---|------------|
| Flammable Liquids | Category 3 |
| Aspiration hazard | Category 1 |
| Skin irritation | Category 2 |
| Acute toxicity | Category 4 |
| Carcinogen | Category 2 |
| Specific target organ toxicity - repeated exposure | Category 2 |
| Hazardous to the aquatic environment - chronic hazard | Category 2 |

Label elements

Pictogram



Signal word

Danger

Hazard statements

H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

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H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical equipment.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P264: Wash hands thoroughly after handling.
P261: Avoid breathing mist or vapours.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.

Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370 + P378: In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand for extinction.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331: Do not induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.

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| | |
|----------------------|---|
| | P391: Collect spillage. |
| Storage | P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. |
| Disposal | P501: Dispose in compliance with local and national regulations. |
| Other hazards | No data available |

SECTION 3. Composition/information on ingredients

Substance

Fuel oil, No 2; Gasoil

Contents: 100.00 %W/W

CAS-No. 68476-30-2

Index-No. 649-225-00-1

EC-No. 270-671-4

Hazard statements *H226 H304 H315 H332 H351 H373
H411*

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

Description of necessary first-aid measures

| | |
|---------------------|--|
| Inhalation | Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water. If skin |

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irritation persists, call a physician. For thermal burns, cool affected areas as quickly as possible by immersing in water. Consult a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. If burns occur, treat as thermal burns.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media

Water spray. Foam. Dry powder. Carbon dioxide (CO₂).

Special hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. Accidental release measures

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| | |
|------------------------------------|---|
| Personal precautions | Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. |
| Environmental precautions | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Soak up with inert absorbent material and dispose of as hazardous waste. |
| Reference to other sections | Refer to Section 8 and 13 |

SECTION 7. Handling and storage

| | |
|--|---|
| Safe handling advice | Ensure adequate ventilation. Do not breathe vapours or spray mist. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Wear personal protective equipment. |
| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. |
| Requirements for storage areas and containers | Keep containers tightly closed in a cool, well-ventilated place. |
| Advice on common storage | Keep away from oxidizing agents, and acidic or alkaline products. |

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

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Contains no substances with occupational exposure limit values.

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

| | |
|---------------------------------|---|
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hand protection | Impervious gloves |
| Eye protection | Safety glasses with side-shields |
| Skin and body protection | Safety shoes Lightweight protective clothing Use protective skin cream before handling the product. |
| Hygiene measures | Wash hands before breaks and immediately after handling the product. |

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|------------------------|------------------------------|
| Form | Liquid |
| State of matter | Liquid; at 20 ° C; 1,013 hPa |
| Colour | Yellow to brown |
| Odour | Hydrocarbon-like Petroleum |
| Odour Threshold | No data available |

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| | |
|---|---|
| pH | No data available |
| Pour point | < 0 ° C; ASTM D97 |
| Boiling point/boiling range | > 260 ° C; ASTM D1160 |
| Flash point | > 60 ° C; ASTM D 93 |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Auto-ignition temperature | 337.7 ° C |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapour pressure | No data available |
| Relative vapour density | No data available |
| Density | 0.92 - 0.97 g/cm ³ ; 20 ° C; ASTM D 1298 |
| Water solubility | Immiscible, Insoluble |
| Partition coefficient: n-octanol/water | No data available |
| Viscosity, kinematic | 2 - 4 mm ² /s; 50 ° C; ASTM D 445 |

SECTION 10. Stability and reactivity

| | |
|---|--|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | None known. |

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| | |
|---|-----------------------------------|
| Conditions to avoid | Heat, flames and sparks. |
| Materials to avoid | Strong acids and oxidizing agents |
| Hazardous decomposition products | Carbon oxides.Hydrocarbons |

SECTION 11. Toxicological information

| | |
|----------------------------------|--|
| Acute oral toxicity | Fuel oil, No 2; Gasoil: LD50 Rat: > 2,000 mg/kg; The data is derived from the evaluations or test results achieved with similar products (conclusion by analogy). |
| Acute inhalation toxicity | Fuel oil, No 2; Gasoil: LC50 Rat: 4 h; 4.6 mg/l; The data is derived from the evaluations or test results achieved with similar products (conclusion by analogy). |
| Acute dermal toxicity | Fuel oil, No 2; Gasoil: LD50 Rabbit: > 2,000 mg/kg; The data is derived from the evaluations or test results achieved with similar products (conclusion by analogy). |
| Skin irritation | Fuel oil, No 2; Gasoil: Rabbit: Slightly irritating; The data is derived from the evaluations or test results achieved with similar products (conclusion by analogy). |
| Eye irritation | Fuel oil, No 2; Gasoil: Rabbit: Slightly irritating The data is derived from the evaluations or test results achieved with similar products (conclusion by analogy). |



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Carcinogenicity

Fuel oil, No 2; Gasoil:
Possible carcinogen.

SECTION 12. Ecological information

Toxicity to fish

Fuel oil, No 2; Gasoil:
flow-through test; Jordanelle Floridae; 96 h; LC50; 54 mg/l;

SECTION 13. Disposal considerations

Product

Dispose of in accordance with local regulations.

SECTION 14. Transport information

ADR

UN number: 1993

Class: 3

Packaging group: III; F1;

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (I)

(Fuel Oil, Distillates (petroleum) light catalytic cracked)

RID



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UN number: 1993

Class: 3

Packaging group: III; F1

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (I)
(Fuel Oil, Distillates (petroleum) light catalytic cracked)

ADNR

UN number: 1993

Class: 3

Packaging group: III; F1

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (I)
(Fuel Oil, Distillates (petroleum) light catalytic cracked)

IMDG

UN number: 1993

Class: 3

EmS: F-E, S-E

Packaging group: III



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Proper shipping name: FLAMMABLE LIQUID, N.O.S. (I)
(Fuel Oil, Distillates (petroleum) light catalytic cracked)

ICAO/IATA

UN number : 1993

Class: 3

Packaging group: III

Proper shipping name: FLAMMABLE LIQUID, N.O.S.(I)
(Fuel Oil, Distillates (petroleum) light catalytic cracked)

SECTION 15. Regulatory information

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

| | |
|---|---|
| USA TSCA Inventory | All chemical constituents are listed in: USA TSCA Inventory (See chapter 3) |
| Canadian Domestic Substances List (DSL) | All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3) |
| Australian Inv. of Chem. Substances (AICS) | All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3) |
| New Zealand Inventory of Chemicals (NZIoC) | Components Not listed Fuel Oil, No.2 |

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| | |
|---|---|
| Jap. Inv. of Exist. & New Chemicals (ENCS) | Components Not listed Fuel Oil, No.2 |
| Japan. Industrial Safety & Health Law (ISHL) | Components Not listed Fuel Oil, No.2 |
| Korea. Existing Chemicals Inventory (KECI) | All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3) |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3) |
| China Inv. Existing Chemical Substances (IECSC) | Components Not listed Fuel Oil, No.2 |

SECTION 16. Other information

Full text of H-Statements

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and



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received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.