

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

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

1.1 Product identifier

Trade name : GTL Light Baseoil

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

Use of the Substance/Mixture : Please refer to Ch16 for the registered uses under REACH.
For R & D use only.

Uses advised against : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : **Shell Chemicals Europe B.V.**
PO Box 2334
3000 CH Rotterdam
Netherlands

Telephone :
Telefax :
Email Contact for Safety Data Sheet :

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Supplemental Hazard Statements	EUH066: Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H226

PHYSICAL HAZARDS:

Flammable liquid and vapour.

H304

HEALTH HAZARDS:

May be fatal if swallowed and enters airways.

H361

Suspected of damaging fertility or the unborn child.

ENVIRONMENTAL HAZARDS:

Not classified as environmental hazard according to CLP criteria.

Supplemental Hazard Statements

:

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statements

:

Prevention:

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

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/ ventilating/ lighting equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331

Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

P370 + P378

In case of fire: Use appropriate media to extinguish.

Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

Disposal:

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

P501

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

2.3 Other hazards

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

Not classified as flammable but will burn.

May ignite on surfaces at temperatures above auto-ignition temperature.

Vapour in the headspace of tanks and containers may ignite and explode at temperatures exceeding auto-ignition temperature, where vapour concentrations are within the flammability range.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Naphtha (Fischer Tropsch), light, C4-C10, branched and linear	848301-65-5 481-730-0	Flam. Liq.1; H224 Skin Irrit.2; H315 STOT RE2; H373 2; H361 Asp. Tox.1; H304 STOT SE3; H336	>= 6 - <= 10
Kerosene (Fischer Tropsch), Full range, C8-C16 branched and linear	848301-66-6 481-670-5 01-0000020121-90	Flam. Liq.3; H226 Asp. Tox.1; H304 EUH066	>= 17 - <= 27
Distillates (Fischer-Tropsch), C8-26 - Branched and Linear	848301-67-7 481-740-5 01-0000020119-75	Asp. Tox.1; H304 EUH066	>= 25 - <= 35
Distillates (Fischer - Tropsch), heavy, C18-50 – branched, cyclic and linear	848301-69-9 482-220-0 01-0000020163-82		>= 40 - <= 60

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

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| General advice | : Not expected to be a health hazard when used under normal conditions. |
| Protection of first-aiders | : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings. |
| If inhaled | : No treatment necessary under normal conditions of use.
If symptoms persist, obtain medical advice. |
| In case of skin contact | : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. |
| In case of eye contact | : Flush eye with copious quantities of water.
Remove contact lenses, if present and easy to do. Continue rinsing.
If persistent irritation occurs, obtain medical attention. |
| If swallowed | : Call emergency number for your location / facility.
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : Not considered to be an inhalation hazard under normal conditions of use.
Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.
The onset of respiratory symptoms may be delayed for several hours after exposure.
Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.
Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.
Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.
If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |
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SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Potential for chemical pneumonitis.
Do not induce vomiting.
Treat symptomatically.
Call a doctor or poison control center for guidance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media : Do not use water in a jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Clear fire area of all non-emergency personnel. Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Flammable vapours may be present even at temperatures below the flash point.

5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information : Keep adjacent containers cool by spraying with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 6.1.1 For non emergency personnel:
Evacuate personnel to safe areas.
Do not breathe fumes, vapour.
Do not operate electrical equipment.
6.1.2 For emergency responders:
Do not breathe fumes, vapour.
Do not operate electrical equipment.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

6.2 Environmental precautions

Environmental precautions : Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

General Precautions : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Ensure that all local regulations regarding handling and storage facilities are followed.
For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier.

7.1 Precautions for safe handling

Advice on safe handling : Avoid inhaling vapour and/or mists.
Avoid prolonged or repeated contact with skin.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Bulk storage tanks should be diked (bunded).

When using do not eat or drink.

Product Transfer : Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 7 m/s). Avoid splash filling.

Refer to guidance under Handling section.

Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Storage class (TRGS 510) : 3, Flammable liquids

Other data : Drum and small container storage: Drums should be stacked to a maximum of 3 high. Use properly labeled and closable containers. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable. Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

- Packaging material : Suitable material: Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FKM), which have been specifically tested for compatibility with this product., For container linings, use amine-adduct cured epoxy paint., For seals and gaskets use: graphite, PTFE, Viton A, Viton B.
Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene., However, some may be suitable for glove materials.
- Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers. Containers, even those that have been emptied, can contain explosive vapours.

7.3 Specific end use(s)

- Specific use(s) : Not applicable

See additional references that provide safe handling practices for liquids that are determined to be static accumulators:
American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or
National Fire Protection Agency 77 (Recommended Practices on Static Electricity).
IEC/TS 60079-32-1: Electrostatic hazards, guidance

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Biological occupational exposure limits

No biological limit allocated.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

No DNEL value has been established.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany <http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

8.2 Exposure controls

Engineering measures The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Eye washes and showers for emergency use.

General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or for subsequent recycle.

Do not ingest. If swallowed, then seek immediate medical assistance.

Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide adequate eye protection.

Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Nitrile rubber. Incidental contact/Splash protection: Neoprene rubber. PVC. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin and body protection : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. All respiratory protection equipment and use must be in accordance with local regulations.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Select a filter suitable for combined particulate/organic gases and vapours [Type A/Type P boiling point > 65°C (149°F)] meeting EN14387 and EN143.

Thermal hazards : Not applicable

Environmental exposure controls

General advice : Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.
Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: white
Odour	: Data not available
Odour Threshold	: Data not available
pH	: Data not available
	Not applicable
pour point	: < -40 °C
Melting point/freezing point	Data not available
Boiling point/boiling range	: 60 - 520 °C
Flash point	: > 38 °C
	Other information: Static-accumulating flammable liquid.
Evaporation rate	: Data not available
Upper explosion limit	: Data not available
Lower explosion limit	: Data not available
Vapour pressure	: Data not available
Relative vapour density	: Data not available
Density	: 0,79 g/m3

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Solubility(ies)

Water solubility : Data not available

Partition coefficient: n-octanol/water : Data not available

Auto-ignition temperature : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity, kinematic : 1,0 - 2,0 mm²/s (100 °C)

9.2 Other information

Conductivity : Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition : Hazardous decomposition products are not expected to form

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

products

during normal storage.

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Basis for assessment : Information given is based on product data, a knowledge of the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
- Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

- Acute oral toxicity : LD 50 Rat: > 2.000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC 50 Rat: > 20 mg/l
Exposure time: 4 h
Remarks: Low toxicity if inhaled.
Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD 50 Rabbit: > 2.000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating., Based on available data, the classification criteria are not met., Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Not irritating to eye., Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser., Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

: Remarks: Not mutagenic., Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
Naphtha (Fischer Tropsch), light, C4-C10, branched and linear	No carcinogenicity classification.
Kerosene (Fischer Tropsch), Full range, C8-C16 branched and linear	No carcinogenicity classification.
Distillates (Fischer-Tropsch), C8-26 - Branched and Linear	No carcinogenicity classification.
Distillates (Fischer - Tropsch), heavy, C18-50 – branched, cyclic and linear	No carcinogenicity classification.

Reproductive toxicity

Product:

: Remarks: Suspected of damaging fertility or the unborn child.

STOT - single exposure

Product:

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

STOT - repeated exposure

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Product:

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

Aspiration toxicity

Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Further information

Product:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Summary on evaluation of the CMR properties

Germ cell mutagenicity-
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Carcinogenicity -
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Reproductive toxicity -
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment : Ecotoxicological data have not been determined specifically for this product.
Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Product:

Toxicity to fish (Acute toxicity) : Remarks: LL/EL/IL50 > 100 mg/l
Practically non toxic:
Based on available data, the classification criteria are not met.

Toxicity to crustacean (Acute toxicity) : Remarks: LL/EL/IL50 > 100 mg/l
Practically non toxic:
Based on available data, the classification criteria are not met.

Toxicity to algae/aquatic : Remarks: LL/EL/IL50 > 100 mg/l

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

plants (Acute toxicity)	Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic toxicity)	: Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l (based on modeled data)
Toxicity to crustacean (Chronic toxicity)	: Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l (based on modeled data)
Toxicity to microorganisms (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product is not persistent.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Contains constituents with the potential to bioaccumulate.

Partition coefficient: n-octanol/water : Remarks: Data not available

12.4 Mobility in soil

Product:

Mobility : Remarks: Partly evaporates from water or soil surfaces, but a significant proportion will remain after one day., Large volumes may penetrate soil and could contaminate groundwater., Floats on water.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

12.6 Other adverse effects

Product:

Additional ecological information : Films formed on water may affect oxygen transfer and damage organisms.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Recover or recycle if possible.
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Do not dispose into the environment, in drains or in water courses
Do not dispose of tank water bottoms by allowing them to drain into the ground.
- Contaminated packaging : Drain container thoroughly.
After draining, vent in a safe place away from sparks and fire.
Residues may cause an explosion hazard.
Do not puncture, cut, or weld uncleaned drums.
Send to drum recoverer or metal reclaimer.
Comply with any local recovery or waste disposal regulations.
Do not pollute the soil, water or environment with the waste container.
- Local legislation
Remarks : EU Waste Disposal Code (EWC):
13 07 01 fuel oil and diesel.
Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Classification of waste is always the responsibility of the end user.

SECTION 14: Transport information

14.1 UN number

- ADN : 1268
ADR : 1268
RID : 1268
IMDG : 1268
IATA : 1268

14.2 Proper shipping name

- ADN : PETROLEUM DISTILLATES, N.O.S.
(Hydrocarbons, C4-C26, branched and linear)
ADR : PETROLEUM DISTILLATES, N.O.S.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

RID : PETROLEUM DISTILLATES, N.O.S.
IMDG : PETROLEUM DISTILLATES, N.O.S.

IATA : Petroleum distillates, n.o.s.

14.3 Transport hazard class

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADN
Packing group : III
Classification Code : F1
Labels : 3 (F)
ADR
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
RID
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
IMDG
Packing group : III
Labels : 3
IATA
Packing group : III
Labels : 3

14.5 Environmental hazards

ADN
Environmentally hazardous : no
ADR
Environmentally hazardous : no
RID
Environmentally hazardous : no
IMDG
Marine pollutant : no

14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Product is not subject to Authorisation under REACH.

Water contaminating class (Germany) : WGK 1 slightly hazardous to water
Remarks: Code Number: 9092, Classification according to AwSV

Other regulations : The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Compliance with paragraph 22 of Youth Employment Law.
Product is subject Betriebs-Sicherheits-Verordnung (BetrSichV).

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Product is subject to Störfallverordnung (12. BImSchV) based on Seveso III directive (2012/18/EU).
Technische Anleitung Luft: Product is not listed by name.
Observe section 5.2.5 in connection with section 5.2.7.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XVII.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments.

Directive 1994/33/EC on the protection of young people at work and its amendments.

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.

15.2 Chemical safety assessment

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

A Chemical Safety Assessment was performed for this substance.

SECTION 16: Other information

REGULATION (EC) No 1272/2008

Flammable liquids, Category 3, H226

Aspiration hazard, Category 1, H304

Reproductive toxicity, Category 2, H361

Supplemental Hazard Statements,
EUH066

Classification procedure:

On basis of test data.

Expert judgement and weight of evidence
determination.

Expert judgement and weight of evidence
determination.

Expert judgement and weight of evidence
determination.

Full text of H-Statements

EUH066	Repeated exposure may cause skin dryness or cracking.
H224	Extremely flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances

ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council

CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

DIN = Deutsches Institut für Normung

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DSL = Canada Domestic Substance List

EC = European Commission

EC50 = Effective Concentration fifty

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals
ECHA = European Chemicals Agency
EINECS = The European Inventory of Existing Commercial Chemical Substances
EL50 = Effective Loading fifty
ENCS = Japanese Existing and New Chemical Substances Inventory
EWC = European Waste Code
GHS = Globally Harmonised System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Inhibitory Concentration fifty
IL50 = Inhibitory Level fifty
IMDG = International Maritime Dangerous Goods
INV = Chinese Chemicals Inventory
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables
KECI = Korea Existing Chemicals Inventory
LC50 = Lethal Concentration fifty
LD50 = Lethal Dose fifty per cent.
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading
LL50 = Lethal Loading fifty
MARPOL = International Convention for the Prevention of Pollution From Ships
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level
OE_HP V = Occupational Exposure - High Production Volume
PBT = Persistent, Bioaccumulative and Toxic
PICCS = Philippine Inventory of Chemicals and Chemical Substances
PNEC = Predicted No Effect Concentration
REACH = Registration Evaluation And Authorisation Of Chemicals
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail
SKIN_DES = Skin Designation
STEL = Short term exposure limit
TRA = Targeted Risk Assessment
TSCA = US Toxic Substances Control Act
TWA = Time-Weighted Average
vPvB = very Persistent and very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for operators.

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

GTL Light Baseoil

Version 1.0

Revision Date 07.05.2020

Print Date 05.09.2022

Other information

: This product is intended for use in closed systems only.

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet

: The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

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.