

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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

1.1 Product identifier

Trade name	: Shell GTL Fluids G80
Product code	: Q6580
Registration number EU	: 01-2120083064-61
CAS-No.	: 1437281-03-2

EC-No.	: 940-727-9
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	: Please refer to section 16 and/or the annexes for the registered uses under REACH. Synthetic drilling base fluid., Feedstock in chemical industry., Solvent.
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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.
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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	: +31 (0)10 441 5137 / +31 (0)10 441 5191
Telefax	: +31 (0)20 716 8316 / +31 (0)20 713 9230
Contact for Safety Data Sheet	: sccmsds@shell.com

1.4 Emergency telephone number

SHELL +44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)

Poison Centers (CAV) eligible for access to information for health emergency response:

CAV Osp. Bambin Gesù Roma 06 68593726; CAV Policlinico "Umberto I" Roma 06-49978000;

CAV Policlinico "A. Gemelli" Roma 06 3054343; CAV Milano 02 66101029; CAV Bergamo 800883300;

CAV Pavia 0382 24444; CAV Verona 800011858; CAV Firenze 055 7947819; CAV Napoli 081 5453333;

CAV Foggia 800183459.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :
PHYSICAL HAZARDS:
Not classified as a physical hazard according to CLP criteria.
HEALTH HAZARDS:
H304 May be fatal if swallowed and enters airways.
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:
P243 Take action to prevent static discharges.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
Storage:
P405 Store locked up.
Disposal:
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.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

3.1 Substances

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear)	1437281-03-2 940-727-9	<= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

- 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. Flush exposed area with water and follow by washing with soap if available.
If persistent irritation occurs, obtain medical attention.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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| 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

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| Symptoms | : Not considered to be an inhalation hazard under normal conditions of use. |
|----------|---|
- No specific hazards under normal use conditions.
- Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.
- 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.
- Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.
Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.
Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

4.3 Indication of any immediate medical attention and special treatment needed

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| Treatment | : Treat symptomatically.
Call a doctor or poison control center for guidance.
Potential for chemical pneumonitis. |
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SECTION 5: Firefighting measures

5.1 Extinguishing media

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| Suitable extinguishing media | : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Unsuitable extinguishing media : Do not use water in a jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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.

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.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

6.3 Methods and material 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

7.1 Precautions for safe handling

Technical measures	: 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.
Advice on safe handling	: Avoid inhaling vapour and/or mists. Avoid prolonged or repeated contact with skin. 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), mix-

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

ing, 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.

7.2 Conditions for safe storage, including any incompatibilities

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| Further information on storage stability | : 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. |
| 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)

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Specific use(s) : 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

Please refer to section 16 and/or the annexes for the registered uses under REACH.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Biological occupational exposure limits

No biological limit allocated.

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

Remarks:	No DNEL value has been established.
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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Remarks:	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.	

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.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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

Personal protective equipment

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.

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

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. When prolonged or frequent repeated contact occurs. Nitrile rubber. For incidental contact/splash protection - Neoprene rubber. PVC.
For continuous contact we recommend gloves with break-through 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. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.
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 : Skin protection is not required under normal conditions of use.
For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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 unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for the combination of organic gases and vapours and particles meeting EN14387 and EN143 [Filter type A/P for use against certain organic gases and vapours with a boiling point >65°C (149°F) and for use against particles].

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: hydrocarbon-like
Odour Threshold	: Data not available
Melting point/freezing point	: no data available
Boiling point/boiling range	: 210 - 260 °C
Flammability	
Lower explosion limit and upper explosion limit / flammability limit	
Upper explosion limit / upper flammability limit	: 7 %(V)
Lower explosion limit / Lower flammability limit	: 0,5 %(V)
Flash point	: 83,5 °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	
Decomposition temperature	: no data available

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

pH : Not applicable

Viscosity
Viscosity, dynamic : Data not available

Viscosity, kinematic : < 2 mm²/s (25 °C)

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : log Pow: > 5,5

Vapour pressure : Data not available (50 °C)

Relative density : < 0,8

Density : < 800 kg/m³ (15 °C)

Relative vapour density : Data not available

Particle characteristics
Particle size : Data not available

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Evaporation rate : Data not available

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

Surface tension : Data not available

Molecular weight : Data not available

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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 products are not expected to form during normal storage.

SECTION 11: Toxicological information

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

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): > 5.000 mg/kg
Remarks: Low toxicity
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC 50 (Rat): > 5 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.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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|---------------------------|--|
| Acute oral toxicity | : LD 50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : LC 50 (Rat, male and female): > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Test(s) equivalent or similar to OECD Test Guideline 403
Remarks: LC50 greater than near-saturated vapour concentration.
Based on data from similar materials
Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : LD 50 (Rat, male and female): > 2.000 mg/kg
Method: Test(s) equivalent or similar to OECD Test Guideline 402
Remarks: Based on available data, the classification criteria are not met. |

Skin corrosion/irritation

Product:

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| Remarks | : Slightly irritating to skin.
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. |
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Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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|---------|---|
| Species | : Rabbit |
| Method | : Test(s) equivalent or similar to OECD Test Guideline 404 |
| Remarks | : Moderately irritating to skin (but insufficient to classify).
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. |

Serious eye damage/eye irritation

Product:

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| Remarks | : Slightly irritating to the 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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Remarks	:	Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Remarks	:	Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Genotoxicity in vitro	:	Method: Test(s) equivalent or similar to OECD Guideline 471 Remarks: Based on available data, the classification criteria are not met.
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	:	Method: Test(s) equivalent or similar to OECD Test Guideline 473 Remarks: Based on available data, the classification criteria are not met.
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	:	Method: Test(s) equivalent or similar to OECD Test Guideline 476 Remarks: Based on available data, the classification criteria are not met.
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Genotoxicity in vivo	:	Species: Mouse Method: Test(s) equivalent or similar to OECD Test Guideline
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

474

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

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

Carcinogenicity

Product:

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

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Species : Rat, male and female
Application Route : Inhalation
Method : Test(s) equivalent or similar to OECD Test Guideline 453
Remarks : Weight of evidence does not support classification as a carcinogen

Species : Mouse, male and female
Application Route : Inhalation
Method : Test(s) equivalent or similar to OECD Test Guideline 453
Remarks : Weight of evidence does not support classification as a carcinogen

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

Material	GHS/CLP Carcinogenicity Classification
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear)	No carcinogenicity classification.

Reproductive toxicity

Product:

Effects on fertility :
Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair fertility.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Effects on fertility : Species: Rat
Sex: male and female
Application Route: Oral

Method: OECD Test Guideline 416
Remarks: Based on available data, the classification criteria are not met.

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

STOT - single exposure

Product:

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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

STOT - repeated exposure

Product:

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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

Repeated dose toxicity

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Species : Rat, male and female
Application Route : Oral

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Method	:	Test(s) equivalent or similar to OECD Test Guideline 408
Target Organs	:	No specific target organs noted
Species	:	Rat, male and female
Application Route	:	Inhalation
Test atmosphere	:	vapour
Method	:	Test(s) equivalent or similar to OECD Test Guideline 413
Target Organs	:	No specific target organs noted

Aspiration toxicity

Product:

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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Further information

Product:

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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic plants	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic toxicity)	:	Remarks: NOEC/NOEL > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: NOEC/NOEL expected to be > 10 - <= 100 mg/l
Toxicity to microorganisms	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (algae)): > 1.000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Toxicity to microorganisms	:	Remarks: Data not available
Toxicity to fish (Chronic toxicity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: Data not available

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: Major constituents are inherently biodegradable, but contains components that may persist in the environment. Based on available data, the classification criteria are not met. Not Persistent per IMO criteria. International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."
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Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Biodegradability	:	Biodegradation: 80 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
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12.3 Bioaccumulative potential

Product:

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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Bioaccumulation	:	Remarks: Has the potential to bioaccumulate.
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12.4 Mobility in soil

Product:

Mobility	:	Remarks: Liquid under most environmental conditions., If it
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

enters soil, it will adsorb to soil particles and will not be mobile.

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil particles and will not be mobile.

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..

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, < 2% aromatics (Alkanes, C12-15-branched and linear):

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 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential.
Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Films formed on water may affect oxygen transfer and damage organisms.

Causes physical fouling of aquatic organisms.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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.
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. This will result in soil and groundwater contamination.
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.
MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships. |
| 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 08 99 oil waste not otherwise specified.
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 or ID number

- | | |
|------|-------------------------------------|
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.2 UN proper shipping name

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2	Revision Date: 24.08.2023	SDS Number: 800010056483	Date of last issue: 17.08.2023 Print Date 31.08.2023
----------------	------------------------------	-----------------------------	---

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.4 Packing group

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.5 Environmental hazards

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good

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.
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14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

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.
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Other regulations:

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

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Safeguard of health and safety in the workplaces refer to D.Lgs.81/2008 and subsequent amendments.

For waste disposal refer to D.Lgs.152/2006 and subsequent amendments.

15.2 Chemical safety assessment

A Chemical Safety Assessment was performed for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

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

The substance does not fulfill all screening criteria for persis-

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2	Revision Date: 24.08.2023	SDS Number: 800010056483	Date of last issue: 17.08.2023 Print Date 31.08.2023
----------------	------------------------------	-----------------------------	---

tence, 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).

Classification of the mixture:

Asp. Tox. 1

H304

Classification procedure:

Expert judgement and weight of evidence determination.

Identified Uses according to the Use Descriptor System

Uses - Worker

Title : Manufacture of substance- Industrial

Uses - Worker

Title : Distribution of substance- Industrial

Uses - Worker

Title : Formulation & (re)packing of substances and mixtures- Industrial

Uses - Worker

Title : Uses in Coatings- Industrial

Uses - Worker

Title : Uses in Coatings- Professional

Uses - Worker

Title : Use in Cleaning Agents- Industrial

Uses - Worker

Title : Use in Cleaning Agents- Professional

Uses - Worker

Title : Use in Oil and Gas field drilling and production operations- Industrial

Uses - Worker

Title : Lubricants- Industrial

Uses - Worker

Title : Lubricants- ProfessionalLow Environmental ReleaseHigh Environmental Release

Uses - Worker

Title : Metal working fluids / rolling oils- Industrial

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Uses - Worker

Title : Metal working fluids / rolling oils- ProfessionalHigh Environmental Release

Uses - Worker

Title : Use as binders and release agents- Industrial

Uses - Worker

Title : Use as binders and release agents- Professional

Uses - Worker

Title : Use in Agrochemicals uses- Professional

Uses - Worker

Title : Use as a fuel- Industrial

Uses - Worker

Title : Use as a fuel- Professional

Uses - Worker

Title : Functional Fluids- Industrial

Uses - Worker

Title : Functional Fluids- Professional

Uses - Worker

Title : Use in laboratories- Industrial

Uses - Worker

Title : Use in laboratories- Professional

Uses - Worker

Title : Polymer processing- Industrial

Uses - Worker

Title : Water treatment chemicals- Industrial

Uses - Worker

Title : Water treatment chemicals- Professional

Uses - Worker

Title : Mining chemicals- Industrial

Identified Uses according to the Use Descriptor System

Uses - Consumer

Title : Uses in Coatings
- Consumer

Uses - Consumer

Title : Use in Cleaning Agents
- Consumer

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Uses - Consumer

Title	:	Lubricants
		- Consumer
		Low Environmental Release
		High Environmental Release

Uses - Consumer

Title	:	Use in Agrochemicals uses
		- Consumer

Uses - Consumer

Title	:	Use as a fuel
		- Consumer

Uses - Consumer

Title	:	Other Consumer Uses
		- Consumer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010600	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Manufacture of substance- Industrial
Use Descriptor	Sector of Use: SU3, SU8, SU9 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 Environmental Release Categories: ERC1, ERC4, ESVOC SpERC 1.1.v1
Scope of process	Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010601	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Distribution of substance- Industrial
Use Descriptor	Sector of Use: SU3, SU8, SU9 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15 Environmental Release Categories: ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ESVOC SpERC 1.1b.v1
Scope of process	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
------------------	--

Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010602	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Formulation & (re)packing of substances and mixtures- Industrial
Use Descriptor	Sector of Use: SU3, SU10 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 Environmental Release Categories: ERC2, ESVOC SpERC 2.2.v1
Scope of process	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
------------------	--

Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Not applicable.	
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SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	

Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010603	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 Environmental Release Categories: ERC4, ESVOC SpERC 4.3a.v1
Scope of process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	

Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010604

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3b.v1
Scope of process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 2.2	Control of Environmental Exposure
Not applicable.	
SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010605	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13 Environmental Release Categories: ERC4, ESVOC SpERC 4.4a.v1
Scope of process	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Not applicable.

SECTION 3

EXPOSURE ESTIMATION

Section 3.1 - Health

Not applicable.

Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010606	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4b.v1
Scope of process	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010632	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Oil and Gas field drilling and production operations-Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b Environmental Release Categories: ERC4, ESVOC SpERC 4.5a.v1
Scope of process	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010609	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18 Environmental Release Categories: ERC4, ERC7, ESVOC SpERC 4.6a.v1
Scope of process	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010610

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- ProfessionalLow Environmental ReleaseHigh Environmental Release
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20 Environmental Release Categories: ERC8a, ERC8d, ERC9a, ERC9b, ESVOC SpERC 8.6c.v1, ESVOC SpERC 9.6b.v1
Scope of process	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	

Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010612	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17 Environmental Release Categories: ERC4, ESVOC SpERC 4.7a.v1
Scope of process	Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 2.2	Control of Environmental Exposure
Not applicable.	
SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010613

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- ProfessionalHigh Environmental Release
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.7c.v1
Scope of process	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	

Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010614	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as binders and release agents- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14 Environmental Release Categories: ERC4, ESVOC SpERC 4.10a.v1
Scope of process	Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), mould forming and casting, and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010615	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as binders and release agents- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b, PROC10, PROC11, PROC14 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.10b.v1
Scope of process	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010616	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Agrochemicals uses- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.11a.v1
Scope of process	Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

EXPOSURE SCENARIO	
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010618	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16 Environmental Release Categories: ERC7, ESVOC SpERC 7.12a.v1
Scope of process	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
--

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010619	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.12b.v1
Scope of process	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
--

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010621	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Functional Fluids- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9 Environmental Release Categories: ERC7, ESVOC SpERC 7.13a.v1
Scope of process	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
--

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010622	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Functional Fluids- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.13b.v1
Scope of process	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010625	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC15 Environmental Release Categories: ERC2, ERC4
Scope of process	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%, Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

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Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010626	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC15 Environmental Release Categories: ERC8a, ESVOC SpERC 8.17.v1
Scope of process	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Risk Management Measures are based on qualitative risk characterisation.
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Section 3.2 -Environment

Not applicable.

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010628	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Polymer processing- Industrial
Use Descriptor	Sector of Use: SU10 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC21 Environmental Release Categories: ERC4, ESVOC SpERC 4.21a.v1
Scope of process	Processing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	
Section 3.2 -Environment	
Not applicable.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010630	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Water treatment chemicals- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13 Environmental Release Categories: ERC3, ERC4, ESVOC SpERC 3.22a.v1
Scope of process	Covers the use of the substance for the treatment of water in open and closed systems.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Not applicable.
Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010631	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Water treatment chemicals- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13 Environmental Release Categories: ERC8f, ESVOC SpERC 8.22b.v1
Scope of process	Covers the use of the substance for the treatment of water in open and closed systems.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
--

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Worker

300000010633	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Mining chemicals- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9 Environmental Release Categories: ERC4, ESVOC SpERC 4.23.v1
Scope of process	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%, Unless stated otherwise.,
Frequency and Duration of Use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure	
Operation is carried out at elevated temperature (> 20°C above ambient temperature). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
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SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Section 3.1 - Health

Not applicable. Risk Management Measures are based on qualitative risk characterisation.

Section 3.2 -Environment

Not applicable.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
--

Section 4.1 - Health

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010607	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3c.v1
Scope of process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
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Revision Date:
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SDS Number:
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SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010608	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC3, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC24, PC35, PC38 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4c.v1
Scope of process	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
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SDS Number:
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Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010611	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants - Consumer Low Environmental Release High Environmental Release
Use Descriptor	Sector of Use: SU21 Product Categories: PC1, PC24, PC31 Environmental Release Categories: ERC8a, ERC8d, ERC9a, ERC9b, ESVOC SpERC 8.6e.v1, ESVOC SpERC 9.6d.v1
Scope of process	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010617	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Agrochemicals uses - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC8 (excipient only), PC12, PC27 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.11b.v1
Scope of process	Covers the consumer use in agrochemicals in liquid and solid forms.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
1.2

Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

Not applicable.

Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010620	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC13 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.12c.v1
Scope of process	Covers consumer uses in liquid fuels.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version	Revision Date:	SDS Number:	Date of last issue: 17.08.2023
1.2	24.08.2023	800010056483	Print Date 31.08.2023

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Section 4.2 -Environment

Not applicable.

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version 1.2 Revision Date: 24.08.2023 SDS Number: 800010056483 Date of last issue: 17.08.2023
Print Date 31.08.2023

Exposure Scenario - Consumer

300000010624	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Other Consumer Uses - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC28, PC39 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.16.v1
Scope of process	Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Consumer Exposure
Product Characteristics	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
General measures (Aspiration)	The H304 hazard statement (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed, then seek immediate medical assistance

Section 2.2	Control of Environmental Exposure
Not applicable.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
Not applicable. Risk Management Measures are based on qualitative risk characterisation.	

Section 3.2 -Environment	
Not applicable.	

SAFETY DATA SHEET

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

Shell GTL Fluids G80

Version
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Revision Date:
24.08.2023

SDS Number:
800010056483

Date of last issue: 17.08.2023
Print Date 31.08.2023

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Not applicable.	
Section 4.2 -Environment	
Not applicable.	