

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

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### SECTION 1. IDENTIFICATION

Product name : Shell Morlina S4 B 100  
Product code : 001F2643

#### Manufacturer or supplier's details

Manufacturer/Supplier : **Shell Canada Products**  
4000-500 Centre Street SE  
Calgary AB T2G 1A6  
Canada

Telephone : (+1) 8006611600  
Telefax : (+1) 4033848345

Emergency telephone number : CHEMTREC (24 hr): 1 (703) 527-3887 or 1 (800) 424-9300 (US)

#### Recommended use of the chemical and restrictions on use

Recommended use : Gear lubricant.

Restrictions on use : This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Based on available data this substance / mixture does not meet the classification criteria.

#### GHS label elements

Hazard pictograms :  
Signal word : No signal word  
Hazard statements : PHYSICAL HAZARDS:  
Not classified as a physical hazard under GHS criteria.  
HEALTH HAZARDS:  
Not classified as a health hazard under GHS criteria.  
ENVIRONMENTAL HAZARDS:  
Not classified as an environmental hazard under GHS criteria.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version 1.2      Revision Date: 2025-04-10      SDS Number: 800010019853      Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

Precautionary statements : **Prevention:**  
No precautionary phrases.  
**Response:**  
No precautionary phrases.  
**Storage:**  
No precautionary phrases.  
**Disposal:**  
No precautionary phrases.

### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
Used oil may contain harmful impurities.  
Not classified as flammable but will burn.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Synthetic base oil and additives.

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Dialkyl dithiophosphate ester	Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-	268567-32-4	0.1 - 0.99 *
Triazole derivative	1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	0.1 - 0.99 *

\* Actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST-AID MEASURES

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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

- If persistent irritation occurs, obtain medical attention.
- 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 : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Most important symptoms and effects, both acute and delayed : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
- 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.
- Notes to physician : Treat symptomatically.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable extinguishing media : Do not use water in a jet.
- Specific hazards during fire-fighting : Hazardous combustion products may include:  
A complex mixture of airborne solid and liquid particulates and gases (smoke).  
Carbon monoxide may be evolved if incomplete combustion occurs.  
Unidentified organic and inorganic compounds.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 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).
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid contact with skin and eyes.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

Environmental precautions : Use appropriate containment to prevent uncontrolled release. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional advice : 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.

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### SECTION 7. HANDLING AND STORAGE

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

Advice on safe handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Avoidance of contact : Strong oxidising agents.

Product Transfer : Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.

Further information on storage stability : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
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Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene.  
Unsuitable material: PVC.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

#### Biological occupational exposure limits

No biological limit allocated.

#### Monitoring Methods

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

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

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

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

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

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

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

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

**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:  
Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

---

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 subsequent recycle.  
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.

### Personal protective equipment

Respiratory protection : No respiratory protection is ordinarily required under normal conditions of use.  
In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.  
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.  
Check with respiratory protective equipment suppliers.  
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.  
Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].

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. PVC, neoprene or nitrile rubber gloves 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. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

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.

- Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
- Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.  
It is good practice to wear chemical resistant gloves.
- Protective measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

### Environmental exposure controls

- General advice : Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.  
Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Physical state : Liquid at room temperature.
- Colour : brown
- Odour : Data not available
- Odour Threshold : Data not available
- Pour point : -42 °C  
Method: ASTM D97  
  
-42 °C  
Method: ISO 3016

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

Melting point/freezing point	:	Data not available
Initial boiling point and boiling range	:	> 280 °C estimated value(s)
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Upper explosion limit / Upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Flash point	:	270 °C Method: ASTM D92 (COC)
Auto-ignition temperature	:	> 320 °C
Decomposition temperature	:	Data not available
pH	:	Not applicable
Viscosity	:	
Viscosity, dynamic	:	Data not available
Viscosity, kinematic	:	90 - 110 mm <sup>2</sup> /s (40.0 °C) Method: ASTM D445  100 mm <sup>2</sup> /s (40.0 °C) Method: ISO 3104  15 mm <sup>2</sup> /s (100 °C) Method: ISO 3104
Solubility(ies)	:	
Water solubility	:	negligible
Solubility in other solvents	:	Data not available

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

Partition coefficient: n-octanol/water : log Pow: > 6  
(based on information on similar products)

Vapour pressure : < 0.5 Pa (20 °C)  
estimated value(s)

Relative density : 0.850 (15 °C)

Density : 850 kg/m<sup>3</sup> (15.0 °C)  
Method: ASTM D4052

Relative vapour density : > 5

Particle characteristics  
Particle size : Data not available

### 9.2 Other information

Explosives : Classification Code: Not classified

Oxidizing properties : Data not available

Evaporation rate : Data not available

Conductivity : This material is not expected to be a static accumulator.

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### SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : Stable.

Possibility of hazardous reactions : Reacts with strong oxidising agents.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidising agents.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
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---

Hazardous decomposition products : No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on data on the components and the toxicology of similar products.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

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

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

##### Product:

Remarks : Slightly irritating to skin.  
Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

##### Product:

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

#### Respiratory or skin sensitisation

##### Product:

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

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

---

### Components:

#### **Dialkyl dithiophosphate ester:**

Remarks : May cause an allergic skin reaction in sensitive individuals.

Remarks : Classified Skin Sensitiser Category 1B.

#### **Germ cell mutagenicity**

##### Product:

Genotoxicity in vivo : Remarks: Non mutagenic  
Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

##### Product:

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

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

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

#### **STOT - single exposure**

##### Product:

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.

#### **Aspiration toxicity**

##### Product:

Not an aspiration hazard.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

### Further information

#### Product:

- Remarks : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.  
ALL used oil should be handled with caution and skin contact avoided as far as possible.
- Remarks : Slightly irritating to respiratory system.

## SECTION 12. ECOLOGICAL INFORMATION

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

### Ecotoxicity

#### Product:

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

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

---

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.  
Major constituents are inherently biodegradable, but contains components that may persist in the environment.  
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, distills at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

### Bioaccumulative potential

#### Product:

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

### Mobility in soil

#### Product:

Mobility : Remarks: Liquid under most environmental conditions.  
If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

### 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.

Poorly soluble mixture.  
Causes physical fouling of aquatic organisms.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : 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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version  
1.2

Revision Date:  
2025-04-10

SDS Number:  
800010019853

Print Date: 2025-04-15  
Date of last issue: 24.04.2021  
Date of first issue: 07.09.2020

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. 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 : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local legislation  
Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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## SECTION 14. TRANSPORT INFORMATION

### National Regulations

#### TDG

Not regulated as a dangerous good

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

### 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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

### SECTION 15. REGULATORY INFORMATION

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

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

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### The components of this product are reported in the following inventories:

TSCA : All components listed.

DSL : All components listed.

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### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; KECl - 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## Shell Morlina S4 B 100

Version	Revision Date:	SDS Number:	Print Date: 2025-04-15
1.2	2025-04-10	800010019853	Date of last issue: 24.04.2021
			Date of first issue: 07.09.2020

---

1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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).

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