# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : Shell Morlina S2 B 220

Product code : 001J8266

Manufacturer or supplier's details

Supplier's company name, : Shell Lubricants Japan K.K.

address and phone number Pacific Century Place Marunouchi 12F

1-11-1, Marunouchi

Chiyoda-ku Tokyo 100-6212

Japan

Telephone : (+81) 03-3218-1780 Telefax : (+81) 03-3218-1781

Emergency telephone : [Important notice for customer support]

number

If you need support for product, please contact our customer

service centre.

Lub Customer Service Centre (Lub CSC)

Tel. 0120-064-315 / Fax. 0120-264-315 (JP Toll free)

E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours only.) [Important notice for customer support]

If you need support for product, please contact our customer

service centre.

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E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours only.)

**Contact for Safety Data** 

Sheet

If you have any enquiries about the content of this SDS

please email lubricantSDS@shell.com

Recommended use of the chemical and restrictions on use

Recommended use : Bearing & Circulating Oil

Restrictions on use :

This substance may not be used for any purpose other than

recommended without expert advice

#### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Long-term (chronic) aquatic : Category 2

hazard

# GHS label elements

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Hazard pictograms

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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:** 

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

# 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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-

extract, according to IP346.

Classification based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

#### **Hazardous components**

Substance name	CAS-No.	Classification	Concentration (% w/w)
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate	68937-41-7	Repr.2; H361 STOT RE2; H373	0.25 - 0.9

# Shell Morlina S2 B 220

Version 1.1	Revis	sion Date 2024.07.23	Print Da	te 2024.11.05
> 5%]		Aquatic Acute2; H401 Aquatic Chronic1; H410		
Butylated hydroxytoluene	128-37-0	Aquatic Chronic1; H410 Aquatic Acute1; H400	0.1 - 0.24	

For explanation of abbreviations see section 16.

#### 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.

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.

#### 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

firefighting

: 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

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

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).

#### 6. ACCIDENTAL RELEASE MEASURES

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

s : 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.

## 7. HANDLING AND STORAGE

# Handling

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.

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Facial protective equipment : If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

Describe contact avoidance,

etc

: Strong oxidising agents.

Product Transfer : Proper grounding and bonding procedures should be used

during all bulk transfer operations to avoid static accumulation.

Storage

Other data : Keep container tightly closed and in a cool, well-ventilated

place.

Use properly labeled and closable containers. Must be stored in a diked (bunded) area.

Store at ambient temperature.

Packaging material : Suitable material: For containers or container linings, use mild

steel or high density polyethylene.

Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned			JP OEL JSOH
	Further information: Group 1: carcinogenic to humans			
Oil mist, mineral	Not Assigned	OEL-M (Mist)	3 mg/m3	JP OEL JSOH
	Further information: Substance whose OEL is set based on non-carcinogenic health effects. See III, Group 1: carcinogenic to humans			
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

## Biological occupational exposure limits

No biological limit allocated.

## **Monitoring Methods**

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

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 Securité, (INRS), France http://www.inrs.fr/accueil

労働者の健康障害を防止するため化学物質の濃度基準値とその適用方法などを定めました (mhlw.go.jp)

#### **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 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.

Tractice good Housekeeping

#### Personal protective equipment

## Protective measures

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

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

PPE suppliers.

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 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 and face 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.

Thermal hazards : Not applicable

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid at room temperature.

Colour : amber

Odour : Slight hydrocarbon

Data not available

Odour Threshold : Data not available

pH : Not applicable

: -10 °C / 14 °F Method: JIS K 2269

Melting / freezing point Data not available

Boiling point, initial boiling

point and boiling range

: > 280 °C / 536 °Festimated value(s)

Flash point : 288 °C / 550 °F

Method: ASTM D92 (COC)

Evaporation rate : Data not available

Flammability

pour point

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Not classified as flammable but will burn.

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : Typical 10 %(V)

Lower explosion limit : Typical 1 %(V)

Vapour pressure : < 0.5 Pa (20 °C / 68 °F)

estimated value(s)

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Relative vapour density : > 1estimated value(s)

Density and / or relative density

Density : 894 kg/m3 (15.0 °C / 59.0 °F)

Method: ASTM D1298

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

:  $\log Pow: > 6$ 

octanol/water (based on information on similar products)

: > 320 °C / 608 °F Auto-ignition point

Decomposition temperature : Data not available

Viscosity

Viscosity (Dynamic) : Data not available

Viscosity, kinematic 220 mm2/s (40.0 °C / 104.0 °F)

Method: JIS K 2283

18.8 mm2/s (100 °C / 212 °F)

Method: JIS K 2283

Particle characteristics

Particle size : Data not available

Data not available

: Classification Code: Not classified Explosive properties

Oxidizing properties : Data not available

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

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 : Reacts with strong oxidising agents.

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

reactions

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

## 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.

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

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

## Germ cell mutagenicity

#### **Product:**

: 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.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

## Reproductive toxicity

## **Product:**

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.

#### **Further information**

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

#### **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.

# 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 (Acute

toxicity)

Remarks: LL/EL/IL50 1-10 mg/l

Toxicity to crustacean (Acute

toxicity)

Remarks: LL/EL/IL50 1-10 mg/l

Toxic

Toxicity to algae/aquatic

plants (Acute toxicity) Remarks: LL/EL/IL50 1-10 mg/l

Toxic

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to crustacean

(Chronic toxicity)

Remarks: Data not available

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Data not available

## Components:

#### Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%]:

Toxicity to fish (Acute

toxicity)

: LC50 (Pimephales promelas (fathead minnow)): 10.8 mg/l

Exposure time: 96 h

Method: Test(s) equivalent or similar to OECD Guideline 203

Toxicity to crustacean (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 1.5 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Guideline 202

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Toxicity to algae/aquatic

EC50 (Raphidocelis subcapitata (freshwater green alga)): >

plants (Acute toxicity) 2.5 mg/l

Exposure time: 96 h

Method: Test(s) equivalent or similar to OECD Test Guideline

Toxicity to microorganisms

(Acute toxicity)

: EC50 : > 1,000 mg/l Exposure time: 3 h

Method: Test(s) equivalent or similar to OECD Guideline 209

Toxicity to fish (Chronic

toxicity)

: NOEC: 3.1 µg/l Exposure time: 33 d

Species: Pimephales promelas (fathead minnow)

Method: Test(s) equivalent or similar to OECD Guideline 210

: NOEC: 41.5 µg/l Toxicity to Exposure time: 21 d

crustacean(Chronic toxicity)

Species: Daphnia magna (Water flea)

Method: Test(s) equivalent or similar to OECD Guideline 211

M-Factor (Long-term : 10

(chronic) aquatic hazard) Butylated hydroxytoluene:

Toxicity to fish (Acute

toxicity)

: LL50 (Oryzias latipes (Orange-red killifish)): 1.1 mg/l

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to crustacean (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 0.48 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Guideline 202

M-Factor (Short-term (acute)

aquatic hazard)

Toxicity to fish (Chronic

toxicity)

: NOEC: 0.53 mg/l

Exposure time: 30 d

Species: Oryzias latipes (Orange-red killifish)

Method: Test(s) equivalent or similar to OECD Guideline 210

Toxicity to

crustacean(Chronic toxicity)

NOEC: 0.069 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: Test(s) equivalent or similar to OECD Guideline 211

M-Factor (Long-term (chronic) aquatic hazard) : 1

: 1

## Persistence and degradability

**Product:** 

Biodegradability : Remarks: Not readily biodegradable., Major constituents are

inherently biodegradable, but contains components that may

persist in the environment.

Components:

Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%]:

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Biodegradability Exposure time: 28 d

Method: Test(s) equivalent or similar to OECD Guideline 301D

Remarks: Not readily biodegradable.

Butylated hydroxytoluene:

Biodegradability : Exposure time: 62 d

Method: OECD Test Guideline 309 Remarks: Degradation half life

5.65 days

**Bioaccumulation** 

**Product:** 

: Remarks: Contains components with the potential to Bioaccumulation

bioaccumulate.

Partition coefficient: n-

octanol/water

: log Pow: > 6Remarks: (based on information on similar

products)

**Components:** 

Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%]:

Bioaccumulation Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 634

Method: Test(s) equivalent or similar to OECD Test Guideline

Remarks: Does not 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

no data available

**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.

Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

Hazardous to the ozone layer

Not applicable

# 13. DISPOSAL CONSIDERATIONS

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

#### Disposal methods

Chemicals (residual waste)

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.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations. preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated containers and 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.

## 14. TRANSPORT INFORMATION

## Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

## **International Regulations**

ADR

UN number : 3082

Product Name (Proper shipping name)

N.O.S.

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

(Phenol, isopropylated phosphate (3:1) (Triphenyl phosphate

> 5%)

Class (Hazard class in

transportation)

: 9

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

Packing group : III Labels 9 Hazard Identification Number : 90 Environmentally hazardous : yes

**IATA-DGR** 

UN/ID No. : UN 3082

Product Name (Proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

shipping name) N.O.S.

(Phenol, isopropylated phosphate (3:1) (Triphenyl phosphate

> 5%)

: 9

Class (Hazard class in

transportation)

Packing group : 111 9 Labels

**IMDG-Code** 

UN number : UN 3082

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Product Name (Proper

shipping name) N.O.S.

(Phenol, isopropylated phosphate (3:1) (Triphenyl phosphate

> 5%)

9

Class (Hazard class in

transportation)

Packing group Ш : 9 Labels Marine pollutant : yes

# 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.

## 15. REGULATORY INFORMATION

#### **Related Regulations**

## Fire Service Law

Not dangerous good Designated Flam. Subs, Flammable liquid, (2 cubic metre)

### **Chemical Substance Control Law**

Priority Assessment Chemical Substance

Chemical name	Number
2,6-Di-tert-butyl-4-methylphenol	64

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

## Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

## Harmful Substances Required Permission for Manufacture

Not applicable

### Substances Prevented From Impairment of Health

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
2,6-Di-tert-butyl-4-cresol	262	>=0.1 - <1
Mineral oil	168	>=90 - <=100

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
Mineral oil	168

## Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

# Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

# Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

# Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

# Poisonous and Deleterious Substances Control Law

Not applicable

# Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

# Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

## **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

# Marine Pollution and Sea Disaster Prevention etc Law

Marine pollutant

#### Marine Pollution and Sea Disaster Prevention etc Law

Pack transportation : (Oil.)

#### **Water Pollution Control Law**

Oil emissions regulations (Law Art. 2-5, Enforcement Order Art. 3-4)

#### Waste Disposal and Public Cleansing Law

Industrial waste

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

TSCA : Not established.

ENCS : All components listed.

#### 16. OTHER INFORMATION

#### **Full text of H-Statements**

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life. H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

# Full text of other abbreviations

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Repr. Reproductive toxicity

STOT RE Specific target organ toxicity - repeated exposure

# **Abbreviations and Acronyms**

AllC - 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; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable

# Shell Morlina S2 B 220

Version 1.1 Revision Date 2024.07.23 Print Date 2024.11.05

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 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

### **Further information**

Training advice : Provide adequate information, instruction and training for

operators.

Other information : 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).

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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