Version 1.1	Revision Date 2024.07.29	Print Date 2024.11.04
1. PRODUCT AND COMPANY IDEN	TIFICATION	
Chemical product name :	Shell Morlina S1 BJ 220	
Product code :	001J7517	
Manufacturer or supplier's de		
Supplier's company name, : address and phone number	Shell Lubricants Japan K.K. Pacific Century Place Marunouchi 12F 1-11-1, Marunouchi Chiyoda-ku Tokyo 100-6212 Japan	
Telephone Telefax	: (+81) 03-3218-1780 : (+81) 03-3218-1781	
Emergency telephone number	<ul> <li>[Important notice for customer support] If you need support for product, please service centre. Lub Customer Service Centre (Lub CS Tel. 0120-064-315/ Fax. 0120-264-315 E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours on</li> </ul>	contact our customer C) 5 (JP Toll free)
Contact for Safety Data Sheet	: If you have any enquiries about the constraint please email lubricantSDS@shell.com	
Recommended use of the che	mical and restrictions on use	
Recommended use :	Bearing & Circulating Oil	
Restrictions on use :	This substance may not be used for any recommended without expert advice	y purpose other than

### 2. HAZARDS IDENTIFICATION

#### **GHS classification of chemical product** Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements	
Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>PHYSICAL HAZARDS:</li> <li>Not classified as a physical hazard under GHS criteria.</li> <li>HEALTH HAZARDS:</li> <li>Not classified as a health hazard under GHS criteria.</li> </ul>

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	ENVIRONMENTAL HAZARDS:	
	Not classified as an environmental	hazard under GHS criteria.
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.

#### 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).
	:	* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9, 68649-12-7, 151006-60-9, 163149-28-8, 64741-88-4, 64741-89-5.

#### Hazardous components

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	<ul> <li>Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>

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In case of eye contact	<ul> <li>Flush eye with copious quantities of water.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>	;
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 formati of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.	ion
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	<ul> <li>Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates a gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.</li> </ul>	
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-Containe Breathing Apparatus must be worn when approaching a fire a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).	ed

### 6. ACCIDENTAL RELEASE MEASURES

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

ersion 1.1	Revision Date 2024.07.29 Print Date 2024.11.0	
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	<ul> <li>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 othe suitable material and dispose of properly.</li> </ul>	
Additional advice	<ul> <li>For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.</li> <li>For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.</li> </ul>	
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.	
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	<ul> <li>Keep container tightly closed and in a cool, well-ventilated place.</li> <li>Use properly labeled and closable containers.</li> </ul>	
	Store at ambient temperature.	

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Packaging material	: Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not temperatures because of possible r	

#### 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 informa	ation: Group 1: c	arcinogenic to humai	าร
Oil mist, mineral	Not Assigned	OEL-M (Mist)	3 mg/m3	JP OEL JSOH
			e whose OEL is set ba e III, Group 1: carcino	
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

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

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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

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.

#### Personal protective equipment

#### Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with 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)].
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sion 1.1	Revision Date 2024.07.29	Print Date 2024.11
Hand protection Remarks	: Where hand contact with the proc gloves approved to relevant stand US: F739) made from the followin suitable chemical protection. PVC gloves Suitability and durability of usage, e.g. frequency and duratic resistance of glove material, dext from glove suppliers. Contaminate replaced. Personal hygiene is a k care. Gloves must only be worn of gloves, hands should be washed Application of a non-perfumed model.	dards (e.g. Europe: EN374, g materials may provide c, neoprene or nitrile rubber a glove is dependent on on of contact, chemical erity. Always seek advice ed gloves should be ey element of effective har on clean hands. After using and dried thoroughly.
	For continuous contact we recom breakthrough time of more than 2 for > 480 minutes where suitable short-term/splash protection we re recognize that suitable gloves offer may not be available and in this of time maybe acceptable so long a and replacement regimes are follor a good predictor of glove resistant dependent on the exact composit Glove thickness should be typicalt depending on the glove make and	40 minutes with preference gloves can be identified. Fe ecommend the same but ering this level of protection case a lower breakthrough s appropriate maintenance owed. Glove thickness is n ice to a chemical as it is ion of the glove material. ly greater than 0.35 mm
Eye and face protection	: If material is handled such that it protective eyewear is recommend	
Skin and body protection	: Skin protection is not ordinarily re work clothes. It is good practice to wear chemic	
Thermal hazards	: Not applicable	
Environmental exposure	controls	
General advice	: Take appropriate measures to ful relevant environmental protection contamination of the environment Section 6. If necessary, prevent being discharged to waste water. treated in a municipal or industria before discharge to surface water Local guidelines on emission limit must be observed for the discharge	legislation. Avoid by following advice given i undissolved material from Waste water should be waste water treatment pla s for volatile substances

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: Liquid at room temperature.

vapour.

sion 1.1 Colour	Revision Date 2024.07.29 : amber	Print Date 2024.1
Odour	: Data not available	
Odour Threshold	: Data not available	
pH	: Not applicable	
pour point	: -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 valu	ue(s)
Flash point	: 286 °C / 547 °F Method: ASTM D92 (COC)	
Evaporation rate	: Data not available	
Flammability		
Flammability (solid, gas)	: Not applicable	
Flammability (liquids)	: Not classified as flammable but	t will burn.
Lower explosion limit and upp	r 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)	
Relative vapour density	: >5	
Density and / or relative density	y	
Density	: 893 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- octanol/water	: log Pow: > 6 (based on information on simila	ar products)
Auto-ignition point	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	

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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	
Explosive properties	: Classification Code: Not classified	
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 reactions	: Reacts with strong oxidising agents.	
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.

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Acute toxicity		
Product:		
Acute oral toxicity	: LD50 rat: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classifi	cation criteria are not met.
Acute inhalation toxicity	: Remarks: Based on available data, are not met.	the classification criteria
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classifi	cation 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.

#### 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	
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### SAFETY DATA SHEET

### Shell Morlina S1 BJ 220

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	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**

#### 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).
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Version 1.1	Revision Date 2024.07.29 Print Date 2024.11.04
Ecotoxicity Product:	
Toxicity to fish (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met. Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	: 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 (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met. Practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to fish (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to microorganisms (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met.
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, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."
Bioaccumulation	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on information on similar products)
Mobility in soil	

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Product:		
Mobility	<ul> <li>Remarks: Liquid under most enviror enters soil, it will adsorb to soil part mobile.</li> <li>Remarks: Floats on water.</li> </ul>	
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological information	<ul> <li>Does not have ozone depletion potential or global we is a mixture of non-volatile componential or global we is a mixture of non-volatile componential or global we is a mixture of use.</li> <li>Poorly soluble mixture., Causes phyorganisms.</li> <li>Mineral oil does not cause chronic the organisms at concentrations less the organisms.</li> </ul>	varming potential., Product ents, which will not be antities under normal ysical fouling of aquatic toxicity to aquatic
Hazardous to the ozone layer		
Not applicable		
13. DISPOSAL CONSIDERATIONS		
Disposal methods		
Chemicals (residual waste)	<ul> <li>Recover or recycle if possible. It is the responsibility of the waste of toxicity and physical properties of the determine the proper waste classifility methods in compliance with applicate Waste product should not be allowed ground water, or be disposed of inter Do not dispose into the environment courses.</li> <li>Do not dispose of tank water bottom drain into the ground. This will result contamination.</li> <li>Waste arising from a spillage or tant disposed of in accordance with prevent preferably to a recognised collector competence of the collector or contter established beforehand.</li> <li>MARPOL - see International Convent Pollution from Ships (MARPOL 73/1)</li> </ul>	he material generated to cation and disposal able regulations. ed to contaminate soil or o the environment. t, in drains or in water ns by allowing them to It in soil and groundwater nk cleaning should be vailing regulations, or contractor. The tractor should be
Contaminated containers and packaging	<ul> <li>technical aspects at controlling polle</li> <li>Dispose in accordance with prevailing to a recognized collector or contract the collector or contractor should be Disposal should be in accordance with</li> </ul>	ng regulations, preferably tor. The competence of e established beforehand.

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	national, and local laws and regulations	
Local legislation Remarks	: Disposal should be in accordance with a 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 Not regulated as a dangerous good

#### 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.

#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### **Fire Service Law**

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

#### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture Not applicable

sion 1.1 Substances Prevented I	Revision Date 2024.07.29 From Impairment of Health	Print Date 2024.11.
Not applicable		
	ormation on Chemicals having Mutager naving Mutagenicity	nicity - Annex 2: Informatio
Not applicable		
on Notified Substances	ormation on Chemicals having Mutager having Mutagenicity	nicity - Annex 1: Information
Not applicable	- Notified Nemeo	
Substances Subject to b Article 57-2 (Enforcement		
Chemical name	Number	Concentration (%
Mineral oil	168	90 - 100
Substances Subject to b	pe Indicated Names	
Article 57 (Enforcement C	Order Article 18)	
Chemical name		Number
Mineral oil		168
Not applicable Ordinance on Preventio	n of Organic Solvent Poisoning	
	n of Organic Solvent Poisoning	
Not applicable		
Enforcement Order of the Substances)	ne Industrial Safety and Health Law - At	tached table 1 (Dangerous
	ne Industrial Safety and Health Law - At	tached table 1 (Dangerous
Substances) Not applicable	ne Industrial Safety and Health Law - At ous Substances Control Law	tached table 1 (Dangerous
Substances) Not applicable		tached table 1 (Dangerous
Substances) Not applicable Poisonous and Deleteric Not applicable Act on Confirmation, etc		nical Substances in the
Substances) Not applicable Poisonous and Deleterie Not applicable Act on Confirmation, etc Environment and Promo	ous Substances Control Law c. of Release Amounts of Specific Chen	nical Substances in the
Substances) Not applicable Poisonous and Deleterie Not applicable Act on Confirmation, etc Environment and Promo Not applicable Vessel Safety Law	ous Substances Control Law c. of Release Amounts of Specific Chen	nical Substances in the
Substances) Not applicable Poisonous and Deleterie Not applicable Act on Confirmation, etc Environment and Promo Not applicable Vessel Safety Law Not applicable Aviation Law Not applicable	ous Substances Control Law c. of Release Amounts of Specific Chen otion of Improvements to the Managem	nical Substances in the
Substances) Not applicable Poisonous and Deleterie Not applicable Act on Confirmation, etc Environment and Promo Not applicable Vessel Safety Law Not applicable Aviation Law Not applicable Marine Pollution and Se Not classified as marine p Water Pollution Control	ous Substances Control Law c. of Release Amounts of Specific Cher otion of Improvements to the Managem	nical Substances in the ent Thereof
Substances) Not applicable Poisonous and Deleterie Not applicable Act on Confirmation, etc Environment and Promo Not applicable Vessel Safety Law Not applicable Aviation Law Not applicable Marine Pollution and Se Not classified as marine p Water Pollution Control	ous Substances Control Law c. of Release Amounts of Specific Cherr otion of Improvements to the Managem ea Disaster Prevention etc Law pollutant Law (Law Art. 2-5, Enforcement Order Art. 3-4	nical Substances in the ent Thereof
Substances) Not applicable Poisonous and Deleteria Not applicable Act on Confirmation, etc Environment and Promo Not applicable Vessel Safety Law Not applicable Aviation Law Not applicable Marine Pollution and Se Not classified as marine p Water Pollution Control Oil emissions regulations Waste Disposal and Pute Industrial waste	ous Substances Control Law c. of Release Amounts of Specific Cherr otion of Improvements to the Managem ea Disaster Prevention etc Law pollutant Law (Law Art. 2-5, Enforcement Order Art. 3-4	nical Substances in the lent Thereof

### SAFETY DATA SHEET

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#### **16. OTHER INFORMATION**

#### 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 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).

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