Shell Morlina S2 BA 220

Version 1.1	Revision Date 16.05.2017	Print Date 17.05.2017				
SECTION 1. PRODUCT AND COM	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					
Product name	: Shell Morlina S2 BA 220					
Product code	: 001F4576					
Manufacturer or supplier's d	etails					
Supplier Telephone Telefax	 Viva Energy Australia Pty Ltd (Formerly: The Shell Company of (ABN 46 004 610 459) 720 Bourke Street Docklands Victoria 3008 Australia +61 (0)3 8823 4444 +61 (0)3 8823 4800 	f Australia)				
Emergency telephone number	: 1800 651 818 (Australia). ; POIS CENTRE: 13 11 26 (Australia).	ONS INFORMATION				
Recommended use of the ch	emical and restrictions on use					
Recommended use	: Machine oil.					
SECTION 2 HAZARDS IDENTIFIC	ATION					

SECTION 2. HAZARDS IDENTIFICATION

		P273 Avoid release to the environment.
Precautionary statements	:	Prevention:
	-	Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.
Hazard statements	:	PHYSICAL HAZARDS:
Signal word	:	No signal word
GHS label elements		No Hazard Symbol required
GHS Classification Chronic aquatic toxicity		Category 3

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	P501 Dispose of contents/ contai disposal plant.	ner to an approved waste

Sensitising components : Contains amine phosphate.Contains triazole derivatives.May produce an allergic reaction.

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

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration [%]
Triazole derivative	80584-90-3	Skin Irrit.2; H315 Skin Sens.1B; H317 Aquatic Chronic1; H410 Aquatic Acute1; H400	0.25 - 0.9
Amine phosphate	91745-46-9	Acute Tox.4; H302 Skin Sens.1; H317 Eye Dam.1; H318 Aquatic Chronic2; H411	0.1 - 0.9
Triazole derivative	91273-04-0	Skin Corr.1B; H314 Skin Sens.1A; H317 Aquatic Chronic1; H410 Aquatic Acute2; H401	0.01 - 0.09

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASU	RES
General advice	: Not expected to be a health hazard when used under normal conditions.
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.

Version 1.1	Revision Date 16.05.2017Print Date 17.05.2017If 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 formatic 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.	

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 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 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).
Hazchem Code	:	NONE
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SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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emergency procedures Environmental precautions	: Use appropriate containment to a contamination. Prevent from spreaditches or rivers by using sand, eabarriers.	ading or entering drains,
	Local authorities should be advise cannot be contained.	ed if significant spillages
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, ear or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or c suitable material and dispose of properly. 	
Additional advice	: For guidance on selection of personal see Chapter 8 of this Safety Data For guidance on disposal of spille this Safety Data Sheet.	Sheet.

SECTION 7. HANDLING AND STORAGE

General Precautions :	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 :	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.
Storage	
Other data :	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
	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	

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	AU OEL
Oil mist, mineral	Not Assigned	TWA ((inhalable fraction))	5 mg/m3	US. ACGIH Threshold Limit Values
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	Australia. Workplace Exposure Standards for Airborne Contaminant s.
Oil mist, mineral	Not Assigned Not Assigned	TWA (Mist) TWA (Inhalable fraction)	5 mg/m3 5 mg/m3	OSHA Z-1 ACGIH

Components with workplace control parameters

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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Engineering measures	: The level of protection and types vary depending upon potential ex controls based on a risk assessm Appropriate measures include: Adequate ventilation to control air	posure conditions. Select ent of local circumstances.
	Where material is heated, sprayed greater potential for airborne conc	
	General Information:	
	Define procedures for safe handli controls.	ng and maintenance of
	Educate and train workers in the I measures relevant to normal activ product.	
	Ensure appropriate selection, test equipment used to control exposu equipment, local exhaust ventilati	ure, e.g. personal protective
	Drain down system prior to equipi maintenance.	
	Retain drain downs in sealed stor subsequent recycle.	age pending disposal or
	Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routing protective equipment to remove c contaminated clothing and footwe Practice good housekeeping.	material and before eating, ely wash work clothing and ontaminants. Discard

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 norr conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of materia If engineering controls do not maintain airborne concentrations to a level which is adequate to protect wo health, select respiratory protection equipment suitable for 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 gase and vapours [Type A/Type P boiling point >65°C (149°F)	al. rker or the n. es
Hand protection Remarks	Where hand contact with the product may occur the use gloves approved to relevant standards (e.g. Europe: EN3 US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rub	874, e

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	gloves Suitability and durability usage, e.g. frequency and dura resistance of glove material, de from glove suppliers. Contamin replaced. Personal hygiene is a care. Gloves must only be worr gloves, hands should be washe Application of a non-perfumed o	tion of contact, chemical xterity. Always seek advice ated gloves should be a key element of effective hand on clean hands. After using ad and dried thoroughly.
	For continuous contact we reco breakthrough time of more than for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long and replacement regimes are for a good predictor of glove resists dependent on the exact compo Glove thickness should be typic depending on the glove make a	a 240 minutes with preference le gloves can be identified. For e recommend the same, but offering this level of protection is case a lower breakthrough as appropriate maintenance ollowed. Glove thickness is not ance to a chemical as it is sition of the glove material. cally greater than 0.35 mm
Eye protection	: If material is handled such that protective eyewear is recomme	
Skin and body protection	: Skin protection is not ordinarily work clothes. It is good practice to wear chen	
Thermal hazards	: Not applicable	
Environmental exposure c	ontrols	
General advice	: Take appropriate measures to the relevant environmental protection	

Seneral advice : Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 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

Appearance	: liquid
Colour	: amber
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: Method: Unspecified

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Melting / freezing point		Data not available	
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s	5)
Flash point	:	>= 230 °C / >= 446 °F Method: ASTM D92 (COC)	
Evaporation rate	:	Data not available	
Flammability (solid, gas)	:	Data not available	
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	:	> 1estimated value(s)	
Relative density	:	0.894 (15 °C / 59 °F)	
Density	:	894 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
Solubility(ies)			
Water solubility	:	negligible	
Solubility in other solvents	:	Data not available	
Partition coefficient: n- octanol/water	:	Pow: > 6(based on information on s	similar products)
Auto-ignition temperature	:	> 320 °C / 608 °F	
Viscosity			
Viscosity, dynamic	:	Data not available	
Viscosity, kinematic	:	198 - 242 mm2/s (40 °C / 104 °F) Method: ASTM D445	
Explosive properties	:	Not classified	
Oxidizing properties	:	Data not available	
Conductivity	:	This material is not expected to be	a static accumulator.
Decomposition temperature	:	Data not available	

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SECTION 10. STABILITY AND REACTIVITY				
Reactivity	: The product does not pose any fu addition to those listed in the follow			
Chemical stability	: Stable.			
Possibility of hazardous reactions	: Reacts with strong oxidising agen	ts.		
Conditions to avoid	: Extremes of temperature and dire	ct sunlight.		
Incompatible materials	: Strong oxidising agents.			
Hazardous decomposition products	: Hazardous decomposition produc during normal storage.	ts are not expected to form		

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).
Exposure routes	: 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: Expected to be of low toxicity:
Acute inhalation toxicity	: Remarks: Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Components:

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Amine phosphate:

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

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

Triazole derivative:

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

Amine phosphate:

Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Triazole derivative:

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

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

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 expected to impair fertility., Not expected to be a developmental toxicant.

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IOI - single expos

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered 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.

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).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l
Toxicity to crustacean (Acute toxicity)	: Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l

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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	
<u>Components:</u> Triazole derivative :		
M-Factor Triazole derivative :	: 1	
M-Factor	: 1	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Expected to be not reaconstituents are expected to be in contains components that may performed to be that may performed to be that may performed by the second	herently biodegradable, but
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains components v bioaccumulate.	with the potential to
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on info	rmation on similar products)
Mobility in soil		
Product:		
Mobility	 Remarks: Liquid under most envir enters soil, it will adsorb to soil pa mobile. Remarks: Floats on water. 	
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological information	 Product is a mixture of non-volatil expected to be released to air in a Not expected to have ozone deple photochemical ozone creation po potential. Poorly soluble mixture., May caus organisms. Mineral oil is not expected to caus aquatic organisms at concentration 	any significant quantities., etion potential, tential or global warming se physical fouling of aquatic se any chronic effects to

SECTION 13. DISPOSAL CONSIDERATIONS

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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. Do not dispose into the environment, in drains or in water courses 	
		Waste product should not be allowed t ground water, or be disposed of into th Waste, spills or used product is dange	e environment.
Contaminated packaging	:	Dispose in accordance with prevailing to a recognized collector or contractor. the collector or contractor should be es Disposal should be in accordance with national, and local laws and regulation	The competence of stablished beforehand.
Local legislation Remarks	:	Disposal should be in accordance with national, and local laws and regulation	

SECTION 14. TRANSPORT INFORMATION

National Regulations

ADG

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Pollution category Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable
Special precautions for user	
Remarks	: Special Precaution

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

Additional Information : MARPOL Annex 1 rules apply for bulk shipments by sea.

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SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons

Product classified as per Work Health Safety Regulations – Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2011 based on Globally Harmonized Classification version 3.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011). Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code). Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Other international regulations

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

EINECS	:	All components listed or polymer exempt.
TSCA	:	All components listed.
AICS	:	All components listed.

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H400	Very toxic to aquatic life.	
H401	Toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
Full text of other abbreviations		

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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

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	struction and Equipment of Ships	
	I inhibitory concentration; ICAO	
	of Existing Chemical Substances	
	O - International Maritime Organiz	
	- International Organisation for S	
	C50 - Lethal Concentration to 50	
	st population (Median Lethal Do	
	of Pollution from Ships; n.o.s N	
Chilean Norm; NO(A)EC - No O	bserved (Adverse) Effect Concentr	ation; NO(A)EL - No Observed
(Adverse) Effect Level; NOELR	- No Observable Effect Loading	Rate; NOM - Official Mexican
	y Program; NZIoC - New Zealand	
	-operation and Development; OPP	
	- Persistent, Bioaccumulative ar	•
	als and Chemical Substances; (Q)	
	Regulation (EC) No 1907/2006 of the	
	jistration, Evaluation, Authorisation	
	nposition Temperature; SDS - Safe	
	; TDG - Transportation of Dang	
	ed States); UN - United Nations	
	nsport of Dangerous Goods; vPvl	
Bioaccumulative; WHMIS - Work	kplace Hazardous Materials Informa	ation System
Date of preparation or review	: 16.05.2017	
Date of preparation of review	. 10.05.2017	

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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