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SECTION ²	I. IDENTIFICATION			
Produc	ct name	:	Shell Morlina S2	BL 22
Produc	ct code	:	001D7738	
Manuf	acturer or supplier's	detai	ls	
SDS R	acturer/Supplier Request		Shell Oil Product PO Box 4427 Houston TX 772 USA (+1) 877-276-728	210-4427
Custor	mer Service	:		
Spill In	gency telephone num Iformation Information	:	877-504-9351 877-242-7400	
	nmended use of the one		i cal and restricti Machine oil.	ions on use
SECTION 2	2. HAZARDS IDENTIF	ICAT	ION	
GHS o	lassification in acco	rdanc	e with 29 CFR 1	910.1200
Long-t hazaro	erm (chronic) aquatic I	:	Category 3	
	abel elements d pictograms	: 1	No symbol	
Signal	word	:	No signal word	
Hazaro	d statements		PHYSICAL HAZ/ Not classified as HEALTH HAZAR Not classified as ENVIRONMENT	a physical hazard under GHS criteria. RDS: a health hazard under GHS criteria.
Preca	utionary statements	:	Prevention:	ase to the environment.
			Response:	
			No precautionar	y phrases.
			Storage:	
			No precautionar	y phrases.
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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.

The classification of this material is based on OSHA HCS 2012 criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	:	Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.

* 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.

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Phenol, isopropylat- ed, phosphate (3:1) [Triphenyl phosphate > 5%]	Phenol, iso- propylated, phosphate (3:1)	68937-41-7	0.25 - 0.9
Butylated hydroxytol- uene	2,6-di-tert- butyl-p-cresol	128-37-0	0.1 - 0.24
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

Hazardous components

SECTION 4. FIRST-AID MEASURES

If inhaled	No treatment necessary under normal conditions of us If symptoms persist, obtain medical advice.	se.
In case of skin contact	Remove contaminated clothing. Flush exposed area 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. Co rinsing. If persistent irritation occurs, obtain medical attention.	
If swallowed	In general no treatment is necessary unless large qua are swallowed, however, get medical advice.	ntities

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	t important symptoms effects, both acute and yed	:	of black pustules	s signs and symptoms may include formation and spots on the skin of exposed areas. sult in nausea, vomiting and/or diarrhoea.
Prot	ection of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
mec	cation of any immediate lical attention and special tment needed	:	Treat symptomati	cally.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances 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).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. 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.

SDS Number: Print Date: 09/06/2018 Version Revision Date: 2.1 09/04/2018 800001007071 Date of last issue: 05/21/2015 Methods and materials for Slippery when spilt. Avoid accidents, clean up immediately. : containment and cleaning up 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. : For guidance on selection of personal protective equipment Additional advice see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Advice on safe handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.
Avoidance of contact	:	Strong oxidising agents.
Product Transfer	:	Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.
Further information on stor- age stability	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
		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 tem- peratures because of possible risk of distortion.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)	-	

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

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 mainte- nance. Retain drain downs in sealed storage pending disposal or subsequent recycle. Always observe good personal hygiene measures, such as

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		drinking, and/ protective equ taminated clo	Is after handling the material and before eating, for smoking. Routinely wash work clothing and uipment to remove contaminants. Discard con- thing and footwear that cannot be cleaned. I housekeeping.
Pers	onal protective equi	oment	
Resp	iratory protection	conditions of In accordance tions should b If engineering tions to a leve select respira cific condition Check with re Where air-filte priate combin Select a filter	e with good industrial hygiene practices, precau- be taken to avoid breathing of material. I controls do not maintain airborne concentra- el which is adequate to protect worker health, tory protection equipment suitable for the spe- s of use and meeting relevant legislation. espiratory protective equipment suppliers. ering respirators are suitable, select an appro- ation of mask and filter. suitable for the combination of organic gases
		and vapours	[Type A/Type P boiling point >65°C (149°F)].
	l protection emarks	gloves approv US: F739) ma suitable chem gloves Suitab usage, e.g. fr sistance of gl glove supplie Personal hyg Gloves must gloves, hands cation of a no For continuou through time 480 minutes v short-term/sp recognize tha may not be a time maybe a and replacem a good predic dependent or Glove thickne	contact with the product may occur the use of yed to relevant standards (e.g. Europe: EN374, ade from the following materials may provide nical protection. PVC, neoprene or nitrile rubber ility and durability of a glove is dependent on equency and duration of contact, chemical re- ove material, dexterity. Always seek advice from rs. Contaminated gloves should be replaced. iene is a key element of effective hand care. only be worn on clean hands. After using a should be washed and dried thoroughly. Appli- n-perfumed moisturizer is recommended. Is contact we recommend gloves with break- of more than 240 minutes with preference for > where suitable gloves can be identified. For lash protection we recommend the same, but t suitable gloves offering this level of protection vailable and in this case a lower breakthrough cceptable so long as appropriate maintenance tor of glove resistance to a chemical as it is the exact composition of the glove material. ss should be typically greater than 0.35 mm the glove make and model.
Eye p	protection		nandled such that it could be splashed into eyes, ewear is recommended.
Skin	and body protection	: Skin protectic work clothes.	n is not ordinarily required beyond standard

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				It is good practice	to wear chemical resistant gloves.
	Protect	ive measures	:		ve equipment (PPE) should meet recom- standards. Check with PPE suppliers.
	Therma	al hazards	:	Not applicable	
	Enviro	nmental exposure co	ntro	ls	
	Genera	al advice	:	vant environmenta of the environment necessary, prever charged to waste municipal or indus discharge to surfa Local guidelines of	measures to fulfill the requirements of rele- al protection legislation. Avoid contamination at by following advice given in Chapter 6. If nt undissolved material from being dis- water. Waste water should be treated in a strial waste water treatment plant before ace water. on emission limits for volatile substances I for the discharge of exhaust air containing
SEC	CTION 9	. PHYSICAL AND CHI	EMIC	CAL PROPERTIES	5
	Appear	ance	:	Liquid at room te	mperature.
	Colour		:	light brown	
	Odour		:	Slight hydrocarbo	on
	Odour	Threshold	:	Data not availabl	e
	pН		:	Not applicable	
	pour po	bint	:	-30 °C / -22 °F Method: ISO 301	6
	Initial b range	oiling point and boiling	:	> 280 °C / 536 °F estimated value(
	Flash p	point	:	179 °C / 354 °F	
				Method: ASTM D	993 (PMCC)
	Evapor	ation rate	:	Data not availabl	e
	Flamm	ability (solid, gas)	:	Data not availabl	e
		explosion limit / upper ability limit	:	Typical 10 %(V)	
		explosion limit / Lower ability limit	:	Typical 1 %(V)	
	Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Morlina S2 BL 22

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				estimated value(5)
I	Relative	e vapour density	:	> 1 estimated value(state)	5)
I	Relative	e density	:	0.870 (15 °C / 59	°F)
I	Density	,	:	870 kg/m3 (15.0 Method: ISO 121	
\$	Solubili Wat	ty(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	Data not availabl	e
	Partition coefficient: n- octanol/water		:	log Pow: > 6 (based on inform	ation on similar products)
/	Auto-ignition temperature		:	> 320 °C / 608 °F	-
I	Decomposition temperature		:	Data not availabl	e
Ň	Viscosi Visc	ty osity, dynamic	:	Data not availabl	e
	Visc	osity, kinematic	:	22 mm2/s (40.0 °	°F)
				Method: ASTM D	445
				4.2 mm2/s (100 °	°C / 212 °F)
				Method: ASTM D	445
I	Explosi	ve properties	:	Not classified	
(Oxidizir	ng properties	:	Data not availabl	e
(Conduc	ctivity	:	This material is n	ot expected to be a static accumulator.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	:	Stable.
Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.

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	Incomp	atible materials	:	Strong oxidising	agents.
	Hazard product	ous decomposition ts	:	No decompositio	n if stored and applied as directed.
SEC	CTION 1	1. TOXICOLOGICAL	NFC	ORMATION	
	Basis fo	or assessment	:	the toxicology of s the data presente	is based on data on the components and similar products.Unless indicated otherwise, d is representative of the product as a for individual component(s).
Information on likely routes Skin and eye contact are the paccidental ingestion.				-	sure although exposure may occur following
	Acute	toxicity			
	Produc	<u>st:</u>			
	Acute c	oral toxicity	:	LD50 (rat): > 5,00 Remarks: Low toy Based on available	
	Acute in	nhalation toxicity	:	Remarks: Based are not met.	on available data, the classification criteria
	Acute o	dermal toxicity	:	LD50 (Rabbit): > Remarks: Low to Based on availab	

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.

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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).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

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.

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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 representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	-	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	•	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to algae (Acute tox-	•	Remarks: LL/EL/IL50 10-100 mg/l

.,		Harmful
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available

Components:

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

M-Factor (Acute aquatic tox- : 1 icity)

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Ν	Butylated hydrc 1-Factor (Acute sity)	-	:	1	
Р	ersistence and	d degradabil	ity		
	roduct: biodegradability		:	Major constituent	dily biodegradable. s are inherently biodegradable, but contains may persist in the environment.
В	lioaccumulativ	e potential			
	Product: Nioaccumulation		:	Remarks: Contair cumulate.	ns components with the potential to bioac-
N	lobility in soil				
	P roduct: Iobility		:		under most environmental conditions. will adsorb to soil particles and will not be on water.
<u>P</u>	o <mark>ther adverse e</mark> P <u>roduct:</u> Additional ecolog			Does not have or	one depletion potential, photochemical
	nation			ozone creation po Product is a mixtu	otential or global warming potential. Ire of non-volatile components, which will not in any significant quantities under normal
				Poorly soluble mi Causes physical	xture. fouling of aquatic organisms.
					ot cause chronic toxicity to aquatic organ- tions less than 1 mg/l.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth-

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		•	ce with applicable regulations. nto the environment, in drains or in water		
		ground water, or	hould not be allowed to contaminate soil or be disposed of into the environment. used product is dangerous waste.		
Contaminated packaging		to a recognized of the collector or c Disposal should	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 Rema	legislation rks	•	be in accordance with applicable regional, al laws and regulations.		

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: 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.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Pennsylvania Right To Know

Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California List of Hazardous Substances

Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5

Other regulations:

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

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

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

SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms		: 8-hour time w : The standard ment can be l	veighted average eighted average abbreviations and acronyms used in this docu- ooked up in reference literature (e.g. scientific and/or websites.
		Hygienists ADR = Europy Carriage of Di AICS = Austra ASTM = Ame BEL = Biologi BTEX = Benz CAS = Chemi CEFIC = Euro CLP = Classif COC = Clevel DIN = Deutsc DMEL = Deriv DNEL = Deriv DNEL = Deriv DSL = Canad EC = Europea EC50 = Effect ECETOC = E gy Of Chemic ECHA = Euro EINECS = Th Chemical Sub EL50 = Effect ENCS = Japa Inventory EWC = Europ GHS = Globa Labelling of C IARC = Intern IATA = Interna IC50 = Inhibito IL50 = Inhibito IL50 = Inhibito IMDG = Interr INV = Chiness IP346 = Institi determination KECI = Korea LC50 = Lethal DARPOL = In Pollution From NOEC/NOEL served Effect	pean Chemicals Agency e European Inventory of Existing Commercial ostances ive Loading fifty nese Existing and New Chemical Substances ean Waste Code Ily Harmonised System of Classification and hemicals ational Agency for Research on Cancer ational Agency for Research on Cancer ational Air Transport Association ory Concentration fifty ory Level fifty national Maritime Dangerous Goods e Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory I Concentration fifty I Dose fifty per cent. thal Loading/Effective Loading/Inhibitory loading Loading fifty ternational Convention for the Prevention of n Ships = No Observed Effect Concentration / No Ob-

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		PICCS = Philippin Substances PNEC = Predicte REACH = Regist Chemicals RID = Regulation gerous Goods by SKIN_DES = Ski STEL = Short ter TRA = Targeted TSCA = US Toxic TWA = Time-Wei	n Designation m exposure limit Risk Assessment c Substances Control Act

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).
Revision Date	:	09/04/2018

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.

US / EN