SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR

1910.1200 Shell Spirax S4 TXM

Version 1.6	Revision Date: 04/30/2018	SDS Number: 800001005108	Print Date: 05/01/2018 Date of last issue: 09/05/2016
SECTION	1. IDENTIFICATION		
Produ	uct name	: Shell Spirax S4	TXM
Produ	uct code	: 001D8246	
Manu	ifacturer or supplier'	s details	
Manu	facturer/Supplier	: Shell Oil Prod PO Box 4427 Houston TX 77 USA	
	Request omer Service	: (+1) 877-276-7 :	285
Emer	gency telephone nu	mber	
Spill I		: 877-504-9351 : 877-242-7400	
	mmended use of the mmended use	e chemical and restric : Transmission c	
SECTION	2. HAZARDS IDENT	FICATION	

GHS classification in accordance with 29 CFR 1910.1200

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	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	Prevention: No precautionary phrases.
	Response: No precautionary phrases. Storage: No precautionary phrases.
	Disposal:

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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.

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

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

> * 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)
Zinc dialkyldithio- phosphate	zinc bis[O,O- bis(2- ethylhexyl)] bis(dithiophosp hate)	4259-15-8	1 - 2.4
Borated ester	2-hydroxy-4- tetradecyl- 1,3,2- dioxaborolane	84819-41-0	0.1 - 0.9
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 use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter 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.

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	If swalle	owed	:		tment is necessary unless large quantities wever, get medical advice.
		portant symptoms ects, both acute and l	:	of black pustules a	s signs and symptoms may include formation and spots on the skin of exposed areas. ult 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.	
	medica	on of any immediate I attention and special ent needed	:	Treat symptomation	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.

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			Local authorities s cannot be contain	should be advised if significant spillages led.
	ethods and materials for ntainment and cleaning up	:	Prevent from spre or other containm Reclaim liquid dire Soak up residue v	It. Avoid accidents, clean up immediately. eading by making a barrier with sand, earth ent material. ectly or in an absorbent. with an absorbent such as clay, sand or other and dispose of properly.
Ac	ditional advice	:	see Chapter 8 of 1	selection of personal protective equipment this Safety Data Sheet. disposal of spilled material see Chapter 13 of Sheet.
SECTIO	ON 7. HANDLING AND ST	OR	AGE	
Te	chnical measures	:	vapours, mists or Use the information sessment of local	e ventilation if there is risk of inhalation of aerosols. In this data sheet as input to a risk as- circumstances to help determine appropri- tfe handling, storage and disposal of this
Ac	vice on safe handling	:	Avoid inhaling vap When handling pr worn and proper h	oduct in drums, safety footwear should be nandling equipment should be used. of any contaminated rags or cleaning mate-
Av	oidance of contact	:	Strong oxidising a	igents.
Pr	oduct Transfer	:		the potential to be a static accumulator. and bonding procedures should be used nsfer operations.
	rther information on stor- e stability	:	place.	phtly closed and in a cool, well-ventilated led and closable containers.
			Store at ambient t	emperature.
Pa	ckaging material	:	Suitable material: steel or high dens Unsuitable materi	
Co	ntainer Advice	:		ainers should not be exposed to high tem- e of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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-

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		subsequent re Always observ washing hand drinking, and/o protective equ taminated clot	owns in sealed storage pending disposal or ecycle. /e good personal hygiene measures, such as s after handling the material and before eating, or smoking. Routinely wash work clothing and ipment to remove contaminants. Discard con- hing and footwear that cannot be cleaned. housekeeping.
Perso	onal protective equip	oment	
	iratory protection	: No respiratory conditions of u In accordance tions should b If engineering tions to a leve select respirat cific conditions Check with res Where air-filte priate combina Select a filter s	protection is ordinarily required under normal use. with good industrial hygiene practices, precau- e taken to avoid breathing of material. controls do not maintain airborne concentra- l which is adequate to protect worker health, ory protection equipment suitable for the spe- s of use and meeting relevant legislation. spiratory protective equipment suppliers. ring respirators are suitable, select an appro- ation of mask and filter. suitable for the combination of organic gases [Type A/Type P boiling point >65°C (149°F)].
Hand	protection		
	emarks	gloves approv US: F739) ma suitable chem gloves Suitabi usage, e.g. fre sistance of glo glove supplier Personal hygie Gloves must of gloves, hands cation of a nor For continuous through time of 480 minutes w short-term/spla recognize that may not be av time maybe ac and replaceme a good predict dependent on Glove thicknes	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide ical protection. PVC, neoprene or nitrile rubber lity and durability of a glove is dependent on equency and duration of contact, chemical re- ove material, dexterity. Always seek advice from s. Contaminated gloves should be replaced. ene is a key element of effective hand care. only be worn on clean hands. After using should be washed and dried thoroughly. Appli- n-perfumed moisturizer is recommended. s contact we recommend gloves with break- of more than 240 minutes with preference for > where suitable gloves can be identified. For ash protection we recommend the same, but suitable gloves offering this level of protection valable and in this case a lower breakthrough cceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not 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	: If material is h	andled such that it could be splashed into eyes,

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			protective eyew	ear is recommended.
S	kin and body protection	:	work clothes.	s not ordinarily required beyond standard ce to wear chemical resistant gloves.
P	rotective measures	:		tive equipment (PPE) should meet recom- Il standards. Check with PPE suppliers.
TI	hermal hazards	:	Not applicable	

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 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 at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-42 °C / -44 °F Method: ISO 3016
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	220 °C / 428 °F
		Method: ISO 2592
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)

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		explosion limit / Lower bility limit	:	Typical 1 %(V)		
	Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)	
				estimated value(S)	
	Relative vapour density		:	> 1 estimated value(s)		
	Relative	e density	:	0.882 (15 °C / 59	°F)	
	Density		:	882 kg/m3 (15.0 Method: ISO 121		
	Solubili Wat	ty(ies) er solubility	:	negligible		
Solubility in other solvents		:	Data not availabl	e		
Partition coefficient: n- : log Pow: > 6 octanol/water (based on information on similar produ		ation on similar products)				
	Auto-ignition temperature		:	> 320 °C / 608 °F	=	
	Decomposition temperature Viscosity Viscosity, dynamic		:	Data not availabl	e	
			:	Data not availabl	е	
	Visc	osity, kinematic	:	60 mm2/s (40.0 s	°C / 104.0 °F)	
				Method: ISO 310	4	
				9.4 mm2/s (100 °	°C / 212 °F)	
				Method: ISO 310	4	
	Explosi	ve properties	: Not classified			
	Oxidizir	ng properties	:	Data not availabl	e	
	Conductivity		:	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-	:	Reacts with strong oxidising agents.
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Print Date: 05/01/2018 Version Revision Date: SDS Number: 1.6 04/30/2018 800001005108 Date of last issue: 09/05/2016 tions Conditions to avoid : Extremes of temperature and direct sunlight. Incompatible materials : Strong oxidising agents. Hazardous decomposition No decomposition if stored and applied as directed. 2 products SECTION 11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

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

Acute toxicity

Product:

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

Skin corrosion/irritation

Product:

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

Serious eye damage/eye irritation

Product:

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

Components:

Zinc dialkyldithiophosphate:

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

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Respiratory or skin sensitisation

Product:

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

Components:

Borated ester:

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

Remarks: Classified Skin Sensitiser Category 1B.

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:		

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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.

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

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To» icity	,	:	Remarks: Data no	ot available	
aqı	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Remarks: Data not available		
	Toxicity to microorganisms (Acute toxicity)		Remarks: Data not available		
Per	sistence and degradabili	ity			
	Product: Biodegradability		Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains components that may persist in the environment.		
Bic	accumulative potential				
Product: Bioaccumulation		:	Remarks: Contains components with the potential to bioa cumulate.		
Mobility in soil					
Pro	oduct:				
Mobility		:		under most environmental conditions. vill adsorb to soil particles and will not be	
			Remarks: Floats on water.		
Otł	ner adverse effects				
<u>Pro</u>	oduct:				
	ditional ecological infor- tion	:	ozone creation po Product is a mixtu	one depletion potential, photochemical stential or global warming potential. Ire of non-volatile components, which will not in any significant quantities under normal	
			Poorly soluble mix Causes physical f	tture. ouling of aquatic organisms.	
				ot cause chronic toxicity to aquatic organ- tions less than 1 mg/l.	

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SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues : Recover or recycle if possible. It is the responsibility of the waste generator to determine t toxicity and physical properties of the material generated to	
determine the proper waste classification and disposal met ods 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.	٢
Contaminated packaging : Dispose in accordance with prevailing regulations, preferate to a recognized collector or contractor. The competence of the collector or contractor should be established beforehan Disposal should be in accordance with applicable regional, national, and local laws and regulations.	f d.
Local legislation Remarks : Disposal should be in accordance with applicable regional, national, and local 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.

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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.

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	:	The following components tablished by SARA Title II	, ,	rting levels es-
		Zinc dialkyldithiophos- phate	4259-15-8	>= 1 - < 5 %

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			
Zinc dialkyldithiophosphate	4259-15-8		
Distillates (petroleum), hydrotreated light	64742-47-8		

California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated light, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardou	s Substances	
Zinc dialkyldithiopl	osphate	4259-15-8
The components of this pro	oduct are reported in the following inven	tories:
EINECS	: All components listed or polymer exer	npt.
TSCA	: All components listed.	
DSL	: All components listed.	

SECTION 16. OTHER INFORMATION

Further information

Devision Dates

Varaian

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NFP tivity	A Rating (Health, Fire,	, Reac- 0, 1, 0		
Full	text of other abbrevi	ations		
ACG	ЯН	: USA. ACGIH T	nreshold Limit Values (TLV)	
OSH	IA Z-1	: USA. Occupation its for Air Conta	onal Exposure Limits (ÒSHÁ) - Table Z- minants	1 Lim-
ACC	H / TWA	· 8-hour time-we	inhted average	

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8-hour, time-weighted average GGIH / TWPOSHA Z-1 / TWA : 8-hour time weighted average : The standard abbreviations and acronyms used in this docu-Abbreviations and Acronyms ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites. ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent.

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		LL50 = Lethal Loa MARPOL = Intern Pollution From SH NOEC/NOEL = N served Effect Lev OE_HPV = Occu PBT = Persistent PICCS = Philippin Substances PNEC = Predicte REACH = Registr Chemicals RID = Regulation gerous Goods by SKIN_DES = Skin STEL = Short tern TRA = Targeted I TSCA = US Toxic TWA = Time-Wei	national Convention for the Prevention of hips lo Observed Effect Concentration / No Ob- el pational Exposure - High Production Volume , Bioaccumulative and Toxic he Inventory of Chemicals and Chemical d No Effect Concentration ration Evaluation And Authorisation Of s Relating to International Carriage of Dan- Rail 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	:	04/30/2018

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