Version Revision Date: SDS Number: Print Date: 05/10/2018 2.0 05/09/2018 800010026144 Date of last issue: 10/21/2016 **SECTION 1. IDENTIFICATION** Product name Shell Tellus S2 VX 15 : Product code : 001F8430 Manufacturer or supplier's details Manufacturer/Supplier : Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA SDS Request : (+1) 877-276-7285 Customer Service : **Emergency telephone number** Spill Information : 877-504-9351 Health Information : 877-242-7400 Recommended use of the chemical and restrictions on use Recommended use : Hydraulic oil **SECTION 2. HAZARDS IDENTIFICATION** GHS classification in accordance with 29 CFR 1910.1200 Aspiration hazard : Category 1 **GHS** label elements Hazard pictograms Signal word Danger 2 PHYSICAL HAZARDS: Hazard statements Not classified as a physical hazard under GHS criteria. **HEALTH HAZARDS:** H304 May be fatal if swallowed and enters airways. **ENVIRONMENTAL HAZARDS:**

Precautionary statements : Prevention:

No precautionary phrases.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

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CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

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

Hazardous components which must be listed on the label: Contains Distillates (Fischer - Tropsch), heavy, C18-50 - branched, cyclic and linear.

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.

High-pressure injection under the skin may cause serious damage including local necrosis.

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) DMSOextract, according to IP346.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Distillates (Fischer - Tropsch), heavy, C18-50 – branched, cyclic and linear	Distillates (Fischer- Tropsch), heavy, C18-50- branched, cy- clic and linear	848301-69-9	85 - 95

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. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent
		wounds.

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Ir	n case	of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Contir rinsing. If persistent irritation occurs, obtain medical attention.	
If	If swallowed		:	Call emergency number for your location / facility. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration If any of the following delayed signs and symptoms appea within the next 6 hours, transport to the nearest medical fa ty: fever greater than 101° F (38.3°C), shortness of breath chest congestion or continued coughing or wheezing.	
а		portant symptoms ects, both acute and l	:	coughing, choking congestion, shortr The onset of respi al hours after expo Defatting dermatit ing sensation and Ingestion may res Local necrosis is a	ungs, signs and symptoms may include y, wheezing, difficulty in breathing, chest hess of breath, and/or fever. iratory symptoms may be delayed for sever- osure. is signs and symptoms may include a burn- /or a dried/cracked appearance. ult in nausea, vomiting and/or diarrhoea. evidenced by delayed onset of pain and ew hours following injection.
Ρ	Protecti	on of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
n	nedical	on of any immediate attention and special nt needed	:	Potential for chem Call a doctor or po	ical pneumonitis. Dison control center for guidance.
				vention and possil age and loss of fu Because entry wo ousness of the un determine the exte anaesthetics or ho can contribute to s surgical decompre eign material shou	ection injuries require prompt surgical inter- bly steroid therapy, to minimise tissue dam- nction. unds are small and do not reflect the seri- derlying damage, surgical exploration to ent of involvement may be necessary. Local of soaks should be avoided because they swelling, vasospasm and ischaemia. Prompt ession, debridement and evacuation of for- uld be performed under general anaesthet- oration is essential.

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.

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	fighting A complex m gases (smok Carbon mon occurs.		A complex mixture gases (smoke). Carbon monoxide occurs.	oon monoxide may be evolved if incomplete combustion	
	Specific ods	c extinguishing meth-	:		measures that are appropriate to local cir- he 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).	
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Avoid contact with	a skin and eyes.
	Enviror	nmental precautions	:	nation. Prevent fro	ontainment to avoid environmental contami- om spreading or entering drains, ditches or nd, earth, or other appropriate barriers.
				Local authorities s cannot be contain	should be advised if significant spillages ed.
		ls and materials for ment and cleaning up	:	Prevent from spre or other containm Reclaim liquid dire Soak up residue v	It. Avoid accidents, clean up immediately. ading by making a barrier with sand, earth ent material. actly or in an absorbent. with an absorbent such as clay, sand or other and dispose of properly.
	Addition	nal advice	:	see Chapter 8 of t	election of personal protective equipment his Safety Data Sheet. lisposal of spilled material see Chapter 13 of heet.

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 as- sessment of local circumstances to help determine appropri- ate controls for safe handling, storage and disposal of this
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			material.	
Advice	e on safe handling	:	Avoid inhaling va When handling pi worn and proper l	or repeated contact with skin. bour and/or mists. roduct in drums, safety footwear should be nandling equipment should be used. of any contaminated rags or cleaning mate- revent fires.
Avoida	ance of contact	:	Strong oxidising a	agents.
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.
Packa	ging material	:	Suitable material: steel or high dens Unsuitable materi	
Conta	iner Advice	:		tainers should not be exposed to high tem- e of possible risk of distortion.

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/

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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 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	
	Respiratory protection :	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precau- tions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentra- tions to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the spe- cific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appro-

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for the combination of organic gases

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		and vapours [Type A/Type P boiling point >65°C (149°F)].
	protection emarks	: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break-through time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.
Eye p	protection	: If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Skin a	and body protection	 Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.
Prote	ctive measures	: Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.
Thern	nal hazards	: Not applicable
Envir	onmental exposure c	ontrols
Gene	ral advice	: Take appropriate measures to fulfill the requirements of rele- vant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being dis-

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
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	:	200 °C / 392 °F
		Method: ISO 2592
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Vapour pressure	:	< 0.5 Pa (20 °C / 68 °F)
		estimated value(s)
Relative vapour density	:	> 1 estimated value(s)
Relative density	:	0.820 (15 °C / 59 °F)
Density	:	820 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	:	log Pow: > 6 (based on information on similar products)
Auto-ignition temperature	:	> 320 °C / 608 °F

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Deco	mposition temperature	: Data not ava	ilable
Visco Vi	osity scosity, dynamic	: Data not ava	ilable
Vi	scosity, kinematic	: 350 mm2/s ((-20 °C / -4 °F)
		Method: AS	FM D445
		15 mm2/s (4	0.0 °C / 104.0 °F)
		Method: AS	TM D445
		3.7 mm2/s (100 °C / 212 °F)
		Method: AS	ΓM D445
Explo	sive properties	: Not classifie	d
Oxidi	zing properties	: Data not ava	ilable
Cond	luctivity	: This materia	I is not expected to be a static accumulator.
SECTION	10. STABILITY AND R	EACTIVITY	
Reac	tivity		does not pose any further reactivity hazards in nose listed in the following sub-paragraph.
Chem	nical stability	: Stable.	

Chemical stability	•	Stable.
Possibility of hazardous reac- tions	:	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.

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.

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Acute	toxicity			
<u>Produ</u> Acute	<u>ct:</u> oral toxicity	:		cicity: e data, the classification criteria are not met.
			pneumonitis which	on into the lungs may cause chemical n can be fatal.
Acute	inhalation toxicity	:	Remarks: Based of are not met.	on available data, the classification criteria
Acute	dermal toxicity	:	LD50 (Rabbit): > Remarks: Low tox Based on availabl	

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.

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.

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OSHA		•	s product present at levels greater than or OSHA's list of regulated carcinogens.
NTP			s product present at levels greater than or ntified as a known or anticipated carcinogen
Reproc	ductive toxicity <u>ct:</u>		

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:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically

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			and the ecotoxico Unless indicated of tive of the product ponent(s).(LL/EL/	is based on a knowledge of the components logy of similar products. otherwise, the data presented is representa- t as a whole, rather than for individual com- IL50 expressed as the nominal amount of to prepare aqueous test extract).
Ecoto	oxicity			
<mark>Produ</mark> Toxici ty)	uct: ity to fish (Acute toxici-	:	Remarks: LL/EL/I Practically non to: Based on availab	
	ty to daphnia and other ic invertebrates (Acute y)	:	Remarks: LL/EL/I Practically non to: Based on availab	
Toxici icity)	ty to algae (Acute tox-	:	Remarks: LL/EL/I Practically non to: Based on availab	
Toxici icity)	ty to fish (Chronic tox-	:	Remarks: Data no	ot available
	ty to daphnia and other ic invertebrates (Chron- city)	:	Remarks: Data no	ot available
	ty to microorganisms e toxicity)	:	Remarks: Data no	ot available
Persis	stence and degradabili	ity		
<u>Produ</u> Biode	<u>uct:</u> gradability	:	Major constituents	dily biodegradable. s are inherently biodegradable, but contains may persist in the environment.
Bioac	cumulative potential			
<u>Produ</u> Bioac	<u>uct:</u> cumulation	:	Remarks: Contair cumulate.	ns components with the potential to bioac-

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	ty in soil			
<u>Produ</u> Mobilit			ers soil, it	under most environmental conditions. will adsorb to soil particles and will not be
		Rema	ks: Floats	on water.
Other	adverse effects			
Produ Additic mation	onal ecological infor-	ozone Produc be rele conditi Poorly	creation po et is a mixtu ased to air ons of use soluble mi	

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- 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.
Contaminated packaging	:	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

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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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
methyl methacrylate	80-62-6	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

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	:	Aspiration hazard
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

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

maleic anhydride	108-31-6	0.0002 %
Naphthalene	91-20-3	0.0003 %
methyl methacrylate	80-62-6	0.198 %

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US State Regulations

Pennsylvania Right To Know

-	
Zinc dialkyldithiophosphate	4259-15-8
methyl methacrylate	80-62-6
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5

California Prop. 65

WARNING: This product can expose you to chemicals including Naphthalene, ethyl acrylate, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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
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ACGIH OSHA Z-1 ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms	:	USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants 8-hour, time-weighted average 8-hour time weighted average The standard abbreviations and acronyms used in this docu- 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

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EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Chemicals Agency 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 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 Concentration fifty LD50 = Lethal Concentration fifty MARPOL = International Grifty erecnt. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading LL50 = Lethal Loading fifty MARPOL = International Convention for the Prevention of Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / No Ob- served Effect Level OE_HPV = Occupational Exposure - High Production Volume PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemical Substances PNEC = Predicted No Effect Concentration REACH = Registration Evaluation And Authorisation Of Chemicals RID = Regulations Relating to International Carriage of Dan- gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit	Version 2.0	Revision Date: 05/09/2018	SDS Number: 800010026144	Print Date: 05/10/2018 Date of last issue: 10/21/2016
TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative			EC50 = Effect ECETOC = Eu gy Of Chemical ECHA = Europ EINECS = The Chemical Sub EL50 = Effecti ENCS = Japan Inventory EWC = Europ GHS = Global Labelling of Cl IARC = Interna IC50 = Inhibito IMDG = Interna IC50 = Inhibito IMDG = Interna INV = Chinese IP346 = Instit determination KECI = Korea LC50 = Lethal LD50 = Lethal LD50 = Lethal LL/EL/IL = Let LL50 = Lethal MARPOL = In Pollution From NOEC/NOEL served Effect OE_HPV = Oc PBT = Persist PICCS = Philip Substances PNEC = Predi REACH = Reg Chemicals RID = Regulat gerous Goods SKIN_DES = 3 STEL = Short TRA = Targete TSCA = US To TWA = Time-V	ive Concentration fifty uropean Center on Ecotoxicology and Toxicolo- als bean Chemicals Agency a European Inventory of Existing Commercial stances ve Loading fifty nese Existing and New Chemical Substances ean Waste Code ly Harmonised System of Classification and hemicals ational Agency for Research on Cancer ational Maritime Dangerous Goods a Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory Concentration fifty Dose fifty per cent. hal Loading/Effective Loading/Inhibitory loading Loading fifty ternational Convention for the Prevention of a Ships = No Observed Effect Concentration / No Ob- Level coupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration gistration Evaluation And Authorisation Of ions Relating to International Carriage of Dan- by Rail Skin Designation term exposure limit ed Risk Assessment oxic Substances Control Act Veighted Average

A vertical bar (|) in the left margin indicates an amendment from the previous version. Due to a change in detail in Section 15, this document has been released as a significant change.

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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