According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Shell Heat Transfer Oil S2

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SECTION	1. IDENTIFICATION			
Produ	uct name	: Shell He	at Transfer Oil S2	
Produ	uct code	: 001D838	88	
Manu	ufacturer or supplier'	s details		
Manu	ufacturer/Supplier	: Shell Oi PO Box	il Products US 4427	

Manulacturel/Supplier	
	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

: Heat transfer oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (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.

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Disposal:

No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

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

Substance / Mixture	: Mixture
Chemical nature	 Highly refined mineral oil. 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, 68649-12-7, 151006-60-9, 163149-28-8.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Interchangeable low		Not Assigned	0 - 90
viscosity base oil			
(<20,5 cSt @40°C) *			

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.
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	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

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c	delayed			Ingestion may res	ult in nausea, vomiting and/or diarrhoea.
Protection of first-aiders		:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.	
r	medical	on of any immediate attention and special nt 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-	:	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-	:	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.
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, earth or other containment material. Reclaim liquid directly or in an absorbent.

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			sidue with an absorbent such as clay, sand or other aterial and dispose of properly.
Additi	onal advice	see Section For guidan	ce on selection of personal protective equipment n 8 of this Safety Data Sheet. ce on disposal of spilled material see Section 13 of Data Sheet.
SECTION	7. HANDLING AND ST	ORAGE	
Techr	nical measures	vapours, m Use the inf sessment o	exhaust ventilation if there is risk of inhalation of hists or aerosols. Formation in this data sheet as input to a risk as- of local circumstances to help determine appropri- s for safe handling, storage and disposal of this
Advic	e on safe handling	Avoid inha When hand worn and p Properly di	onged or repeated contact with skin. ling vapour and/or mists. dling product in drums, safety footwear should be proper handling equipment should be used. spose of any contaminated rags or cleaning mate- er to prevent fires.
Avoid	ance of contact	: Strong oxid	dising agents.
Produ	ict Transfer		unding and bonding procedures should be used oulk transfer operations to avoid static accumulation.
	er information on stor- tability	place.	ainer tightly closed and in a cool, well-ventilated
		Store at an	nbient temperature.
Packa	aging material	steel or hig	aterial: For containers or container linings, use mild h density polyethylene. material: PVC.
Conta	iner Advice		ne containers should not be exposed to high tem- because 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

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able particu-	
late matter)	

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 washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard con-
		taminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

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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- priate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].
Hand protection	_	
Remarks	:	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 protection	:	If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Skin and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.
Protective measures	:	Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.

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Therm	al hazards	: Not applicable	
Enviro	onmental exposure o	controls	
Gener	al advice	vant environme of the environm necessary, prev charged to wast municipal or ind discharge to sur Local guidelines	e measures to fulfill the requirements of rele- ntal protection legislation. Avoid contamination ent by following advice given in Section 6. If rent undissolved material from being dis- te water. Waste water should be treated in a ustrial waste water treatment plant before face water. s on emission limits for volatile substances ed for the discharge of exhaust air containing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-12 °C / 10 °F Method: ISO 3016
Melting / freezing point		Data not available
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	208 °C / 406 °F
		Method: ISO 2719
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)

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Relativ	ve density	:	0.857 (20 °C / 6	3 °F)
Densit	У	:	857 kg/m3 (20 ° Method: ISO 12	
	lity(ies) ater solubility	:	negligible	
Sol	lubility in other solvents	:	Data not availab	le
	on coefficient: n- bl/water	:		nation on similar products)
Auto-ię	gnition temperature	:	> 320 °C / 608 °	F
Decon	nposition temperature	:	Data not availab	le
Viscos Vis	sity cosity, dynamic	:	Data not availab	le
Vis	cosity, kinematic	:	29 mm2/s (40.0	°C / 104.0 °F)
			Method: ISO 31)4
			5.1 mm2/s (100	°C / 212 °F)
			Method: ISO 31)4
			1.4 mm2/s (200	°C / 392 °F)
			Method: ISO 31	04
			270 mm2/s (0 °C	C / 32 °F)
			Method: ISO 31	04
Explos	sive properties	:	Not classified	
Oxidiz	ing properties	:	Data not availab	le
Condu	ıctivity	:	This material is i	not expected to be a static accumulator.

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	patible materials	:	Strong oxidising	agents.
	Hazard produc	ous decomposition ts	:	No decompositio	n if stored and applied as directed.
SEC	CTION 1	1. TOXICOLOGICAL	INF	ORMATION	
	Basis f	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 n for individual component(s).
	Skin ar	ation on likely routes ad eye contact are the atal ingestion.			sure although exposure may occur following
	Acute	toxicity			
	Produc Acute c	oral toxicity	:	LD50 (rat): > 5,00 Remarks: Low to Based on availab	
	Acute i	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.

Germ cell mutagenicity

Product:

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: 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 > 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.
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
Persistence and degradabilit	ty	
<u>Product:</u> Biodegradability	:	Remarks: Not readily biodegradable.

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			uents are inherently biodegradable, but contains that may persist in the environment.		
Bioad	ccumulative potential				
<u>Prodi</u> Bioac	uct: cumulation	: Remarks: Co cumulate.	Remarks: Contains components with the potential to bioac- cumulate.		
Mobi	lity in soil				
<u>Prodi</u> Mobil			Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.		
		Remarks: Flo	bats on water.		
Othe	r adverse effects				
Prod	uct:				
Additi matio	ional ecological infor- n	ozone creation Product is a	ve ozone depletion potential, photochemical on potential or global warming potential. mixture of non-volatile components, which will no to air in any significant quantities under normal use.		
		Poorly solub Causes phys	le mixture. sical fouling of aquatic organisms.		
			pes not cause chronic toxicity to aquatic organ- entrations 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- 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.

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		•	d be in accordance with applicable regional, cal laws and regulations.
Loca l	l legislation		d be in accordance with applicable regional,
Rema	arks		cal 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 Section 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.

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.

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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

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.

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	: Not established.
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 OSHA Z-1		USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms	:	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

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		DNEL = Derive DSL = Canada EC = European EC50 = Effecti ECETOC = Eu gy Of Chemica ECHA = Europe EINECS = The Chemical Subs EL50 = Effectiv ENCS = Japar Inventory EWC = Europe GHS = Globall Labelling of Ch IARC = Interna IC50 = Inhibito IL50 = Inhibito IL50 = Inhibito IMDG = Interna INV = Chinese IP346 = Institu determination of KECI = Korea LC50 = Lethal LD50 = Lethal LL/EL/IL = Leth LL50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect L OE_HPV = Oc PBT = Persiste PICCS = Philip Substances PNEC = Predia REACH = Reg Chemicals RID = Regulati gerous Goods SKIN_DES = S STEL = Short f TRA = Targete TSCA = US To TWA = Time-V	ve Concentration fifty ropean Center on Ecotoxicology and Toxicolo- las eaan Chemicals Agency European Inventory of Existing Commercial stances ve Loading fifty nese Existing and New Chemical Substances ean Waste Code y Harmonised System of Classification and nemicals ational Agency for Research on Cancer tional Air Transport Association ry Concentration fifty ry Level fifty ational Maritime Dangerous Goods 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 ernational Convention for the Prevention of Ships No Observed Effect Concentration / No Ob- level cupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration istration Evaluation And Authorisation Of ions Relating to International Carriage of Dan-

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

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IUCLID date base, EC 1272 regulation, etc).

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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