Version

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

SDS Number:

Print Date: 04/29/2023

Shell Refrigeration Oil S4 FR-V 68

Revision Date:

5.0	08/26/2018	800001015821	Date of last issue: 06/20/2017
SECTION	I 1. IDENTIFICATION		
Prod	uct name	: Shell Refrigera	ation Oil S4 FR-V 68
Prod	uct code	: 001D8400	
Man	ufacturer or supplier'	s details	
Manı	ufacturer/Supplier	: Shell Oil Proc PO Box 4427 Houston TX 7 USA	
	Request omer Service	: (+1) 877-276-7 :	7285
Spill	rgency telephone num Information th Information	mber : 877-242-7400 : 877-504-9351	
	ommended use of the ommended use	e chemical and restri : Refrigerator oi	
SECTION	2. HAZARDS IDENT	IFICATION	
GHS	classification in acc	ordance with 29 CFR	1910.1200
Long haza	i-term (chronic) aquatic rd	c : Category 4	
GHS	label elements		
Haza	ard pictograms	: No Hazard Sym	nbol required
Signa	al word	: No signal word	i
Haza	ard statements	HEALTH HAZ	as a physical hazard under GHS criteria.
			NTAL HAZARDS: Ise long lasting harmful effects to aquatic life
Preca	autionary statements	H413 May cau	se long lasting harmful effects to aquatic life
Prec	autionary statements	H413 May cau Prevention: P273 Avoid rel	
Prec	autionary statements	H413 May cau	se long lasting harmful effects to aquatic life lease to the environment.
Prec	autionary statements	H413 May cau · Prevention: P273 Avoid rel Response:	ise long lasting harmful effects to aquatic life lease to the environment. hary 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.

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

: Alkyl benzene.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Alkylbenzene (C14-	Benzene, C14-	68855-24-3	95 - 99
C30)	30-alkyl derivs.		

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.
In case of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

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Protec	tion of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
medica	ion of any immediate al attention and special ent needed	:	Treat symptomati	cally.
			vention and possi age and loss of fu Because entry we ousness of the un determine the ext anaesthetics or he can contribute to surgical decompre eign material show	ection injuries require prompt surgical inter- bly steroid therapy, to minimise tissue dam- inction. bunds are small and do not reflect the seri- iderlying damage, surgical exploration to ent of involvement may be necessary. Local ot soaks should be avoided because they swelling, vasospasm and ischaemia. Prompt ession, debridement and evacuation of for- uld be performed under general anaesthet- loration 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.
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-	:	Avoid contact with skin and eyes.
tive equipment and emer-		
gency procedures		

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E	nvironmental 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.
	Nethods and materials for ontainment 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. vith an absorbent such as clay, sand or other and dispose of properly.
A	dditional advice	:	see Chapter 8 of	election of personal protective equipment this Safety Data Sheet. disposal of spilled material see Chapter 13 of 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.
Further information on stor- age stability	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
Packaging material	:	Suitable material: For containers, or container linings use mild steel. Unsuitable material: For containers or container linings avoid PVC, polyethylene or high density polyethylene.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

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

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		taminated clot	ipment to remove contaminants. Discard con- hing and footwear that cannot be cleaned. housekeeping.
Pers	onal protective equip	ment	
	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)].
	l protection emarks	gloves approv US: F739) ma suitable chem gloves Suitabi usage, e.g. fre sistance of glo glove supplier Personal hygie Gloves must o gloves, hands cation of a nor For continuous through time o 480 minutes w short-term/spla recognize that may not be av time maybe ao 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 ailable and in this case a lower breakthrough cceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not for of glove resistance to a chemical as it is the exact composition of the glove material. as should be typically greater than 0.35 mm the glove make and model.
Еуе р	protection		andled such that it could be splashed into eyes, wear is recommended.
Skin	and body protection	work clothes.	n is not ordinarily required beyond standard tice to wear chemical resistant gloves.

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	Protective measures		:	: Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.				
	Therma	al hazards	:	Not applicable				
	Enviro	nmental exposure co	ntro	ls				
General 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- charged 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.					
SEC	TION 9	. PHYSICAL AND CHI	ЕМІС	CAL PROPERTIES	3			
	Appear	ance	:	Liquid at room te	mperature.			
	Colour		:	colourless				
	Odour		:	Slight hydrocarbo	on			
	Odour ⁻	Threshold	:	Data not availabl	e			
	pН		:	Not applicable				
	pour po	bint	:	-39 °C / -38 °F Method: Unspeci	fied			
	Initial b range	oiling point and boiling	:	> 280 °C / 536 °F estimated value(s				
	Flash p	oint	:	190 °C / 374 °F				
				Method: Unspeci	fied			
	Evapor	ation rate	:	Data not availabl	e			
	Flamma	ability (solid, gas)	:	Data not availabl	e			
		explosion limit / upper bility limit	:	Typical 10 %(V)				
		explosion limit / Lower bility limit	:	Typical 1 %(V)				
	Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)			
				estimated value(5)			

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	Relativ	e vapour density	:	> 1 estimated value(s)	
	Relativ	e density	:	0.871 (15 °C / 59 °F)		
	Density	/	:	871 kg/m3 (15 °0 Method: ISO 121		
	Solubil Wat	ity(ies) ter solubility	:	negligible		
	Solu	ubility in other solvents	:	Data not availabl	e	
	Partitio octano	n coefficient: n- I/water	:	log Pow: > 6 (based on inform	ation on similar products)	
	Auto-ignition temperature		:	> 320 °C / 608 °F	=	
	Decom	position temperature	:	Data not availabl	e	
	Viscosi Visc	ity cosity, dynamic	:	Data not availabl	e	
	Viso	cosity, kinematic	:	68 mm2/s (40.0 °	°C / 104.0 °F)	
				Method: ISO 310)4	
				6.2 mm2/s (100 s	°C / 212 °F)	
				Method: ISO 310)4	
	Explos	ive properties	:	Not classified		
	Oxidizi	ng properties	:	Data not availabl	e	
	Condu	ctivity	:	This material is r	not expected to be a static accumulator.	

SECTION 10. STABILITY AND REACTIVITY

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.

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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.

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.

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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.
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.

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.

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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 (Chron- ic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms : (Acute toxicity)	:	Remarks: Data not available
Persistence and degradability	/	
Product: Biodegradability :	•	Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains components that may persist in the environment.

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	Bioaco	cumulative potential				
	Produ	ct:				
	Bioaccumulation		:	: Remarks: Contains components with the potential to bioac cumulate.		
	Mobili	ty in soil				
	<u>Produ</u>	<u>ct:</u>				
	Mobility		:	Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.		
				Remarks: Floats	on water.	
	Other	adverse effects				
	Produ	<u>ct:</u>				
	Additic mation	onal ecological infor-	:	ozone creation po Product is a mixtu	cone depletion potential, photochemical otential or global warming potential. ure of non-volatile components, which will not in any significant quantities under normal	
				Poorly soluble mi Causes physical	xture. fouling of aquatic organisms.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
•		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.

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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.

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 SA	ARA 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.

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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	:	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 / 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 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 Toxicolo- gy Of Chemicals	

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		EINECS = The Chemical Subs EL50 = Effectiv ENCS = Japar Inventory EWC = Europe GHS = Globall Labelling of Ch IARC = Interna IATA = Interna IC50 = Inhibito IL50 = Inhibito IMDG = Interna INV = Chinese IP346 = Institu determination KECI = Korea LC50 = Lethal LD50 = Lethal LL/EL/IL = Leth LL50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect I 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 Loading fifty nese Existing and New Chemical Substances ean Waste Code y Harmonised System of Classification and hemicals 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- evel cupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration istration Evaluation And Authorisation Of

Due to a change in detail in Section 15, this document has been released as a significant change. 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).

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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