According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

MACK Hydraulic Oil Premium 32

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SECTION 1. IDENTIFICATION

Product name	:	MACK Hydraulic Oil Premium 32
Product code	:	00115136

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

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.
Precautionary statements	:	
Precautionary statements	:	No precautionary phrases. Response: No precautionary phrases. Storage:
Precautionary statements	:	No precautionary phrases. Response: No precautionary phrases.
Precautionary statements	:	No precautionary phrases. Response: No precautionary phrases. Storage:
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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.

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, 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.
	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.

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		nportant symptoms ects, both acute and d	:	of black pustules a Ingestion may res Local necrosis is a	signs and symptoms may include formation and spots on the skin of exposed areas. ult in nausea, vomiting and/or diarrhoea. evidenced by delayed onset of pain and ew hours following injection.
	Protect	ion of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
	medica	on of any immediate I attention and special ent needed	:	Treat symptomation	cally.
				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 ot 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.
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).

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
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. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

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

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Pack	aging material		al: For containers or container linings, use mild nsity polyethylene. erial: PVC.
Conta	ainer Advice		ontainers should not be exposed to high tem- use 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 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

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		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.
Perso	onal protective equip	ment
Respi	ratory protection	 No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate 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)].
	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

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		and replacen a good predi dependent o Glove thickn	acceptable so long as appropriate maintenance nent regimes are followed. Glove thickness is not ctor of glove resistance to a chemical as it is n the exact composition of the glove material. ess should be typically greater than 0.35 mm n the glove make and model.	
Eye	protection		handled such that it could be splashed into eyes, ewear is recommended.	
Skin	and body protection	work clothes	on is not ordinarily required beyond standard .ctice to wear chemical resistant gloves.	
Prot	ective measures		tective equipment (PPE) should meet recom- onal standards. Check with PPE suppliers.	
The	rmal hazards	: Not applicab	le	
Env	ironmental exposure	controls		
Gen	eral advice	vant environ of the environ necessary, p charged to w municipal or discharge to Local guideli	riate measures to fulfill the requirements of rele- mental protection legislation. Avoid contamination ment by following advice given in Section 6. If revent undissolved material from being dis- vaste water. Waste water should be treated in a industrial waste water treatment plant before surface water. mes on emission limits for volatile substances erved for the discharge of exhaust air containing	
SECTIO	N 9. PHYSICAL AND C	HEMICAL PROPER	RTIES	
Арр	earance	: liquid		
Colo	bur	: clear		
Odo	ur	: Slight hydro	carbon	
Odo	ur Threshold	: Data not ava	ailable	
pН		: Not applicable		
pou	r point	: -39 °C / -38 °F		

pour point	:	-39 °C / -38 °F Method: ISO 3016
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)

- Flash point : 215 °C / 419 °F
 - Method: ISO 2592

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Evapora	tion rate	:	Data not availabl	e
Flamma	bility (solid, gas)	:	Data not availabl	e
	xplosion limit / upper pility limit	:	Typical 10 %(V)	
	xplosion limit / Lower pility limit	:	Typical 1 %(V)	
Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)
			estimated value(5)
Relative	vapour density	:	> 1 estimated value(s	5)
Relative	density	:	0.854 (15 °C / 59	°F)
Density		•	854 kg/m3 (15.0 Method: ISO 121	
Solubilit Wate	y(ies) er solubility	:	negligible	
Solul	bility in other solvents	:	Data not availabl	e
Partition octanol/	ocoefficient: n- water	:	log Pow: > 6 (based on inform	ation on similar products)
Auto-ign	ition temperature	:	> 320 °C / 608 °F	-
Decomp	oosition temperature	:	Data not availabl	e
Viscosity Visco	y osity, dynamic	:	Data not availabl	e
Visco	osity, kinematic	:	32 mm2/s (40.0 °	°C / 104.0 °F)
			Method: ASTM D	0445
			6.1 mm2/s (100 °	°C / 212 °F)
			Method: ASTM D	0445
Explosiv	ve properties	:	Not classified	
Oxidizin	g properties	:	Data not availabl	e
Conduct	tivity	:	This material is n	ot expected to be a static accumulator.

SECTION 10. STABILITY AND REACTIVITY

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Rea	ctivity	:		s not pose any further reactivity hazards in listed in the following sub-paragraph.
Che	mical stability	:	Stable.	
Poss tions	sibility of hazardous reac-	:	Reacts with stror	ng oxidising agents.
Con	ditions to avoid	:	Extremes of tem	perature and direct sunlight.
Inco	mpatible materials	:	Strong oxidising	agents.
Haza prod	ardous decomposition ucts	:	No decompositio	n 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).
	where, ration that for marriadal component(c).

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.

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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.

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:

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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.

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

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	y to daphnia and other c invertebrates (Chron- city)	:	Remarks: Data	not available
	y to microorganisms toxicity)	:	Remarks: Data	not available
Persis	tence and degradabil	ity		
Produ	<u>ct:</u>			
Biodeg	gradability	:	Major constitue	eadily biodegradable. nts are inherently biodegradable, but contai at may persist in the environment.
Bioace	cumulative potential			
<u>Produ</u>	<u>ct:</u>			
Bioaco	cumulation	:	Remarks: Cont cumulate.	ains components with the potential to bioac
Mobili	ty in soil			
<u>Produ</u>	<u>ct:</u>			
Mobilit	у	:		d under most environmental conditions. it will adsorb to soil particles and will not be
			Remarks: Float	s on water.
Other	adverse effects			
Produ	ct:			
Additic mation	nal ecological infor-	:	ozone creation Product is a mi	ozone depletion potential, photochemical potential or global warming potential. xture of non-volatile components, which will air in any significant quantities under normal se.
			Poorly soluble Causes physic	nixture. al fouling of aquatic organisms.
				s not cause chronic toxicity to aquatic organ trations 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 toxicity and physical properties of the material generated determine the proper waste classification and disposal material 	d to

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			nce with applicable regulations. into the environment, in drains or in water
		ground water, c	should not be allowed to contaminate soil or or be disposed of into the environment. used product is dangerous waste.
Cont	aminated packaging	to a recognized the collector or Disposal should	ordance with prevailing regulations, preferably collector or contractor. The competence of contractor should be established beforehand. d be in accordance with applicable regional, cal laws and regulations.
Loca Rem	arks		d be in accordance with applicable regional, 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.

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

Clean Water Act

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

US State Regulations

Pennsylvania Right To Know

Zinc dialkyldithiophosphate

4259-15-8

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 t	his product are reported in the following inventories:
	· All company on the listed or not more evenent

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

SECTION 16. OTHER INFORMATION

Further information

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

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this docu-
		ment can be looked up in reference literature (e.g. scientific
		dictionaries) and/or websites.

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		ACGIH = Ame Hygienists ADR = Europe Carriage of Da AICS = Austra ASTM = Amer BEL = Biologic BTEX = Benz CAS = Chemic CEFIC = Europ CLP = Classifi COC = Clevela DIN = Deutsch DMEL = Derive DNEL = Derive DSL = Canada EC = Europea EC50 = Effecti ECETOC = Eu gy Of Chemica EC4A = Europ EINECS = The Chemical Subs EL50 = Effecti ENCS = Japar Inventory EWC = Europea GHS = Globall Labelling of Ch IARC = Interna IC50 = Inhibito IL50 = Inhibito IL50 = Inhibito IMDG = Interna INV = Chinese IP346 = Institu determination KECI = Korea LC50 = Lethal LD50 = Lethal MARPOL = Int Pollution From	Date of last issue: - rican Conference of Governmental Industrial an Agreement concerning the International ingerous Goods by Road lian Inventory of Chemical Substances ican Society for Testing and Materials al exposure limits ene, Toluene, Ethylbenzene, Xylenes cal Abstracts Service pean Chemical Industry Council cation Packaging and Labelling and Open-Cup les Institut fur Normung ed Minimal Effect Level a Domestic Substance List n Commission ve Concentration fifty uropean Chemicals Agency e European Inventory of Existing Commercial stances ve Loading fifty hese Existing and New Chemical Substances ean Waste Code y Harmonised System of Classification and hemicals ational Agency for Research on Cancer tional 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
		NOEC/NOEL = served Effect I OE_HPV = Oc PBT = Persiste PICCS = Philip Substances PNEC = Predic REACH = Reg Chemicals	 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-

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SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative

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	:	03/26/2020

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