According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Pennzoil 0W-20 Motor Oil

Version 1.1	Revision Date: 03/29/2018	SDS Number: 800010028568	Print Date: 03/30/2018 Date of last issue: 12/20/2016
SECTION	1. IDENTIFICATION		
Produ	uct name	: Pennzoil 0W-20) Motor Oil
Produ	uct code	: 001G2270	
Manu	afacturer or supplier	s details	
Manu	facturer/Supplier	: Shell Oil Produ PO Box 4427 Houston TX 77 USA	
SDS Request Customer Service		: (+1) 877-276-7	285
Emer	gency telephone nu	mber	
Spill I		: 877-504-9351 : 877-242-7400	
Reco	mmended use of the	e chemical and restric	tions on use
Reco	mmended use	: Engine oil.	
SECTION	2. HAZARDS IDENT	IFICATION	

GHS classification in accordance with 29 CFR 1910.1200

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements Hazard pictograms	No Hazard Symbol required
Signal word	: No signal word
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	 Prevention: No precautionary phrases. Response: No precautionary phrases. Storage: No precautionary phrases.
	Disposal:

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No precautionary phrases.

Other hazards which do not result in classification

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

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

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

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Chemical nature

Synthetic base oil and additives. Highly refined mineral oil. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346. The highly refined mineral oil is only present as additive diluent.

* 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.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Polyolefin polyamine succinimide polyol **		Not Assigned	1 - 3
Alkaryl amine	bis(nonylphenyl)amine	36878-20-3	1 - 3
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

** polymer exempt.

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.

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			If persistent irritat	ion occurs, obtain medical attention.
lf swa	allowed	:	•	tment is necessary unless large quantities owever, get medical advice.
	important symptoms effects, both acute and red	:	of black pustules	s signs and symptoms may include formation and spots on the skin of exposed areas. sult in nausea, vomiting and/or diarrhoea.
Prote	ection of first-aiders	:		ng first aid, ensure that you are wearing the mal protective equipment according to the d surroundings.
medi	ation of any immediate cal attention and special ment needed	:	Treat symptomat	cally.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

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			cannot be contain	
	ethods 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. with an absorbent such as clay, sand or other and dispose of properly.
Ad	dditional advice	:	see Chapter 8 of	selection of personal protective equipment this Safety Data Sheet. disposal of spilled material see Chapter 13 of Sheet.
SECTI	ON 7. HANDLING AND ST	OR/	AGE	
Τe	echnical measures	:	vapours, mists or Use the information sessment of local	e ventilation if there is risk of inhalation of aerosols. on in this data sheet as input to a risk as- circumstances to help determine appropri- ife handling, storage and disposal of this
Ad	dvice on safe handling	:	Avoid inhaling var When handling pr worn and proper h	oduct in drums, safety footwear should be nandling equipment should be used. of any contaminated rags or cleaning mate-
Av	voidance of contact	:	Strong oxidising a	igents.
Pr	oduct Transfer	:		the potential to be a static accumulator. and bonding procedures should be used nsfer operations.
	urther information on stor- ge stability	:	place.	phtly closed and in a cool, well-ventilated led and closable containers.
			Store at ambient	emperature.
Pa	ackaging material	:	Suitable material: steel or high dens Unsuitable materi	
Co	ontainer Advice	:		ainers should not be exposed to high tem- e of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)		

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

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

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

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

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

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

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

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

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

Engineering measures	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.
		Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
		General Information: Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of
		equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or mainte-

Drain down system prior to equipment break-in or mainte-

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		subsequent rec Always observe washing hands drinking, and/or protective equip	good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and ment to remove contaminants. Discard con- ing and footwear that cannot be cleaned.
Pe	rsonal protective equipn	nent	
Re	spiratory protection	conditions of us In accordance we tions should be If engineering of tions to a level select respirato cific conditions Check with resp Where air-filteri priate combinat Select a filter su	protection is ordinarily required under normal se. with good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols do not maintain airborne concentra- which is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation. biratory protective equipment suppliers. ng respirators are suitable, select an appro- ion of mask and filter. uitable for the combination of organic gases Type A/Type P boiling point >65°C (149°F)].
Ha	nd protection		
	Remarks	gloves approve US: F739) mad suitable chemic gloves Suitabilit usage, e.g. frec sistance of glov glove suppliers. Personal hygier Gloves must or gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be ava time maybe acc and replacemen a good predicto dependent on th Glove thickness	ntact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ty and durability of a glove is dependent on guency and duration of contact, chemical re- re material, dexterity. Always seek advice from a Contaminated gloves should be replaced. The is a key element of effective hand care. By be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > there suitable gloves can be identified. For sh protection we recommend the same, but suitable gloves offering this level of protection ilable and in this case a lower breakthrough the tregimes are followed. Glove thickness is not or of glove resistance to a chemical as it is the exact composition of the glove material. a should be typically greater than 0.35 mm the glove make and model.
Eye	e protection	: If material is ha	ndled such that it could be splashed into eyes,

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		protective eye	wear is recommended.
Skin and body protection		work clothes.	n is not ordinarily required beyond standard tice to wear chemical resistant gloves.
Protective measures		•	ective equipment (PPE) should meet recom- nal standards. Check with PPE suppliers.
Therm	nal hazards	: Not applicable	

Environmental exposure controls

General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing
	vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Pale amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-48 °C / -54 °F Method: ASTM D97
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	201 °C / 394 °F
		Method: ASTM D93 (PMCC)
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)

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		explosion limit / Lower bility limit	:	Typical 1 %(V)	
	Vapour	pressure	:	< 0.5 Pa (20 °C /	68 °F)
				estimated value(s	5)
	Relative	e vapour density	:	> 1 estimated value(s	5)
	Relative	e density	:	0.8376 (15 °C / 5	9 °F)
	Density		:	837.6 kg/m3 (15. Method: ASTM D	
	Solubili Wat	ty(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	Data not available	e
	Partition octanol	n coefficient: n- /water	:	Pow: > 6(based o	on information on similar products)
	Auto-ig	nition temperature	:	> 320 °C / 608 °F	-
	Decom	position temperature	:	Data not available	e
	Viscosi Visc	ty osity, dynamic	:	Data not availabl	e
	Visc	osity, kinematic	:	8.44 mm2/s (100	°C / 212 °F)
				Method: ASTM D	9445
	Explosi	ve properties	:	Not classified	
	Oxidizir	ng properties	:	Data not available	e
	Conduc	ctivity	:	This material is n	ot expected to be a static accumulator.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	:	Stable.
Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.

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	Incompatible materials	: Strong oxidising agents.			
	Hazardous decomposition products	: No decomposition if stored and applied as directed.			
SEC	TION 11. TOXICOLOGICAL	VFORMATION			
	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 Skin and eye contact are the accidental ingestion.	of exposure primary routes of exposure although exposure may occur following	g		
	Acute toxicity				
	Product:				
	Acute oral toxicity	 LD50 (rat): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not me 	⊧t.		
	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 me 	×t.		

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.

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Germ	cell mutagenicity		
<u>Produ</u>	uct:		
		: Remarks: Non fication criteria	mutagenic, Based on available data, the classi- are not met.
Carci	nogenicity		
Produ Rema		Based on available (data, the classification criteria are not met.
I/GIII0	arks. Not a carcinogen		
IARC	;		this product present at levels greater than or dentified as probable, possible or confirmed n by IARC.
OSH	A		this product present at levels greater than or on OSHA's list of regulated carcinogens.
NTP			this product present at levels greater than or dentified as a known or anticipated carcinogen
Repro	oductive toxicity		
<u>Produ</u>	uct:		
			a developmental toxicant., Does not impair on available data, the classification criteria are
STOT	- single exposure		
Produ	uct:		
Rema	arks: Based on availat	ble data, the classificat	ion criteria are not met.
STOT	- repeated exposure	e	
<u>Produ</u>	uct:		

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

Product:

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

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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: Continuous contact with used engine oils has caused skin cancer in animal tests.

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:

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Biode	egradability	: Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but cont components that may persist in the environment.	ains
Bioa	ccumulative potential		
<u>Prod</u> Bioac	uct: ccumulation	: Remarks: Contains components with the potential to bioa cumulate.	ac-
Mobi	lity in soil		
Prod	uct:		
Mobil	lity	 Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not b mobile. 	e
		Remarks: Floats on water.	
Othe	r adverse effects		
<u>Prod</u> Addit matic	ional ecological infor-	 Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential. Product is a mixture of non-volatile components, which w be released to air in any significant quantities under norm conditions of use. 	
		Poorly soluble mixture. Causes physical fouling of aquatic organisms.	
SECTION	13. DISPOSAL CONS	PERATIONS	
Disp	osal methods		
•	e from residues	: Recover or recycle if possible.	

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,

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		national, and lo	cal laws and regulations.
Local legislation Remarks			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 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 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

Pennsylvania Right To Know					
Distillates (petroleu Zinc dialkyldithioph Distillates (petroleu	64742-54-7 4259-15-8 64742-65-0				
California List of Hazardous Substances					
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7					
The components of this product are reported in the following inventories:					
EINECS	: All components listed or polymer ex	kempt.			
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 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

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		DSL = Canada EC = Europea EC50 = Effecti ECETOC = Eu gy Of Chemica ECHA = Europ EINECS = The Chemical Sub EL50 = Effecti ENCS = Japar Inventory EWC = Europe GHS = Globall Labelling of Cl IARC = Interna IC50 = Inhibito IL50 = Inhibito IL50 = Inhibito IMDG = Interna IC50 = Inhibito IMDG = Interna IC50 = Lethal LD50 = Lethal LD50 = Lethal LL/EL/IL = Let LL50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect I OE_HPV = Oc PBT = Persisto PICCS = Philip Substances PNEC = Predi REACH = Reg Chemicals RID = Regulat gerous Goods SKIN_DES = S 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 by Harmonised System of Classification and nemicals 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 ccupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration jistration 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	:	The quoted data are from, but not limited to, one or more
compile the Safety Data		sources of information (e.g. toxicological data from Shell
Sheet		Health Services, material suppliers' data, CONCAWE, EU

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

1910.1200

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			IUCLID date base	e, EC 1272 regulation, etc).
Revision Date		:	03/29/2018	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US/EN