According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Rotella Gas Truck 5W-20

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SECTION 1. IDENTIFICATION

Product code : 001H0882

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 : Engine 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. Response: No precautionary phrases.
Precautionary statements	:	Prevention: No precautionary phrases. Response:
Precautionary statements	:	Prevention: 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.

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, 68649-12-7, 151006-60-9, 163149-28-8.

Hazardous components

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

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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	delayed	l		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.	
I	medical	on of any immediate attention and special nt needed	:	Treat symptomatio	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.
	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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				e with an absorbent such as clay, sand or other I and dispose of properly.
Addi	tional advice	:	see Chapter 8 c	n selection of personal protective equipment of this Safety Data Sheet. In disposal of spilled material see Chapter 13 of In Sheet.
SECTION	I 7. HANDLING AND ST	OR.	AGE	
Tech	inical measures	:	vapours, mists of Use the information of loc	ist ventilation if there is risk of inhalation of or aerosols. Ition in this data sheet as input to a risk as- al circumstances to help determine appropri- safe handling, storage and disposal of this
Advid	ce on safe handling	:	Avoid inhaling v When handling worn and prope	d or repeated contact with skin. apour and/or mists. product in drums, safety footwear should be r handling equipment should be used. e of any contaminated rags or cleaning mate- prevent fires.
Avoid	dance of contact	:	Strong oxidising	agents.
Prod	uct Transfer	:		ng and bonding procedures should be used ransfer operations to avoid static accumulation.
	ner information on stor- stability	:	place.	tightly closed and in a cool, well-ventilated beled and closable containers.
			Store at ambier	t temperature.
Pack	aging material	:		al: For containers or container linings, use mild nsity polyethylene. erial: PVC.
Cont	ainer Advice	:		ntainers 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

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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- 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, 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)]. 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 breakthrough 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. Eve protection If material is handled such that it could be splashed into eyes, protective eyewear is recommended. Skin protection is not ordinarily required beyond standard Skin and body protection work clothes. It is good practice to wear chemical resistant gloves. Protective measures Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Thermal hazards : Not applicable

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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 Section 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 at room temperature.
Colour	:	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	:	235 °C / 455 °F
		Method: ASTM D92 (COC)
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Vapour pressure	:	< 0.5 Pa (20 °C / 68 °F)
		estimated value(s)
Relative vapour density	:	> 1 estimated value(s)
Relative density	:	0.835 (15.0 °C / 59.0 °F)

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	Density		:	835 kg/m3 (15.0 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	:	log Pow: > 6 (based on information)	ation 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 available	e
	Visc	osity, kinematic	:	8.3 mm2/s (100 °	C / 212 °F)
				Method: ASTM D	445
				46.3 mm2/s (40.0) °C / 104.0 °F)
				Method: ASTM D	445
	Explosi	ve properties	:	Not classified	
	Oxidizir	ng properties	:	Data not available	e
	Conduc	tivity	:	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.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

: Information given is based on data on the components and

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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.

Carcinogenicity

Product:

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

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IARC		•	is product present at levels greater than or ntified as probable, possible or confirmed by IARC.		
OSHA	,	No component of this product present at levels greater than equal to 0.1% is on OSHA's list of regulated carcinogens.			
NTP		No component of this product present at levels greater than equal to 0.1% is identified as a known or anticipated carcin by NTP.			
Repro	ductive toxicity				
Produc	<u>ct:</u>				
			levelopmental toxicant., Does not impair n available data, the classification criteria are		

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

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

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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 representative of the product as a whole, rather than for individual component(s). (L1/E1/L50 expressed as the nominal amount of product required to prepare aqueous test extract). Ecotoxicity Product: Toxicity to fish (Acute toxici- is the rest of the product as a whole, rather than for individual component(s). (L1/E1/L50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met. Toxicity to daphnia and other is aquatic invertebrates (Acute toxicity) Remarks: L1/E1/L50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met. Toxicity to algae (Acute tox- icity) : Remarks: L1/E1/L50 > 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 is aquatic invertebrates (Chron- ic toxicity) : Remarks: Data not available Toxicity to microorganisms (Acute toxicity) : Remarks: Data not available Product: Biodegradability : Remarks: Not readily biodegradable, but contains components that may persist in the environment. Bioaccumulative potential Producti Major constituents are inhe	/ersion .1	Revision Date: 11/04/2019	-	0S Number: 0010033034	Print Date: 11/05/2019 Date of last issue: 07/16/2018
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cumulate.	Prod	uct:			
•	Bioac	cumulation	:		ns components with the potential to bioac-
Product:	Mobi	lity in soil			
	Produ	uct:			

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Mot	bility		d under most environmental conditions. t will adsorb to soil particles and will not be
		Remarks: Float	s on water.
Oth	er adverse effects		
Pro	duct:		
Add mat	litional ecological infor- ion	ozone creation Product is a mix	ozone depletion potential, photochemical potential or global warming potential. ture of non-volatile components, which will not air in any significant quantities under normal e.
		Poorly soluble r Causes physica	nixture. I fouling of aquatic organisms.
SECTIO	N 13. DISPOSAL CONS	IDERATIONS	
Dis	posal methods		

Waste from residues	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth- ods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
		Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
Contaminated packaging	:	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulations

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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
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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.

US State Regulations

Pennsylvania Right To Know

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Zinc dialkyldithiophosphate	4259-15-8
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0

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.

California List of Hazardous Substances

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
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Other regulations:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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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 OSHA Z-1 ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms	: : :	USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants 8-hour, time-weighted average 8-hour time weighted average The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Chemicals Agency EINECS = The European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty

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ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory LCS0 = Lethal Concentration fifty LD50 = Lethal Loading /ffty MARPOL = International Convention for the Prevention of Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / No Ob- served Effect Level OE_HPV = Occupational Exposure - High Production Volume PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemical Substances PNEC = Predicted No Effect Concentration REACH = Registration Evaluation And Authorisation Of Chemicals RID = Regulations Relating to International Carriage of Dan- gerous Goods by Rail SKIN_DES = Skin Designation STELL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative	Version 1.1	Revision Date: 11/04/2019	SDS Number: 800010033034	Print Date: 11/05/2019 Date of last issue: 07/16/2018
			Inventory EWC = Europe GHS = Global Labelling of Cl IARC = Interna IATA = Interna IC50 = Inhibito IMDG = Intern INV = Chinese IP346 = Institu determination KECI = Korea LC50 = Lethal LD50 = Lethal LL/EL/IL = Let LL50 = Lethal MARPOL = In Pollution From NOEC/NOEL served Effect I OE_HPV = Oc PBT = Persiste 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	ean Waste Code ly Harmonised System of Classification and hemicals ational Agency for Research on Cancer ational Air Transport Association by Concentration fifty ry Level fifty ational Maritime Dangerous Goods a Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory Concentration fifty Dose fifty per cent. hal Loading/Effective Loading/Inhibitory loading Loading fifty ternational Convention for the Prevention of a Ships = No Observed Effect Concentration / No Ob- Level coupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration gistration Evaluation And Authorisation Of tions Relating to International Carriage of Dan- by Rail Skin Designation term exposure limit ed Risk Assessment oxic Substances Control Act Veighted Average

A vertical bar (|) in the left margin indicates an amendment from the previous version.

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	:	11/04/2019

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

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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