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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Shell Rotella DD+ 40
Product code	:	001A9306

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	: Engine oil.
Uses advised against	: This product must not be used in applications other than thos listed in Section 1 without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: Shell UK Oil Products Limited Shell Centre London SE1 7NA United Kingdom
Telephone Telefax Email Contact for Safety Data Sheet	 : (+44) 08007318888 : If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

1.4 Emergency telephone number

: +44-(0) 151-350-4595

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms	:	No Hazard Symbol required		
Signal word	:	No signal word		
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP criteria.		

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		HEALTH HAZARDS Not classified as a h criteria. ENVIRONMENTAL Not classified as env according to CLP cri	ealth hazard under CLP HAZARDS: vironmental hazard
Precautionary statements	 Prevention: Response: Storage: Disposal: 	No precautionary ph No precautionary ph No precautionary ph No precautionary ph	irases.
Safety data sheet available on	request.		
Sensitising components	: Contains calciu May produce a	im sulphonate. n allergic reaction.	

2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.
	 * contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375- 34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01- 2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65- 0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01- 2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69- 9 (01-0000020163-82), 68649-12-7 (01-2119527646-33), 151006-60-9 (01-2119523580-47), 163149-28-8 (01- 2119543695-30).

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Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Asp. Tox.1; H304	0 - 90
Calcium sulphonate	70024-69-0 274-263-7	Skin Sens.1B; H317	< 0.9

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.				
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 water 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.				
4.2 Most important symptoms and effects, both acute and delayed					
Symptoms	: 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.				
4.3 Indication of any immediate medical attention and special treatment needed					
Treatment	: Notes to doctor/physician: Treat symptomatically.				

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SECTION 5: Firefighting measures

5.1	Extinguishing media		
	Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
	Unsuitable extinguishing media	:	Do not use water in a jet.
5.2	Special hazards arising from t	he	substance or mixture
	Specific hazards during firefighting	:	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.
5.3	Advice for firefighters		
	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).
	Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid	For non emergency personnel: contact with skin and eyes.
		For emergency responders: contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions	: Use appropriate containment to avoid environmental contamination. 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.

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up	: Slippery when spilt. Avoid accid Prevent from spreading by maki or other containment material. Reclaim liquid directly or in an a Soak up residue with an absorbe suitable material and dispose of	ng a barrier with sand, earth bsorbent. ent such as clay, sand or other

6.4 Reference to other sections

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

Genera	al Precautions	:	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.
7.1 Precaut	ions for safe handling		
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 materials in order to prevent fires.
Produc	t Transfer	:	Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.
7.2 Conditio	ons for safe storage, in	cl	uding any incompatibilities
Other d	lata	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
			Store at ambient temperature.
			Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.
			The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency office.
Packag	ying material	:	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
Contair	ner Advice	:	Polyethylene containers should not be exposed to high

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 temperatures because of possible risk of distortion.

7.3 Specific end use(s)

Specific use(s)

: Not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Oil mist, mineral		TWA	5 mg/m3	US. ACGIH Threshold Limit Values

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

8.2 Exposure controls

Engineering measuresThe 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.

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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 protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection :	If material is handled such that it could be splashed into eyes, protective eyewear is recommended. Approved to EU Standard EN166.
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.

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Skin and body protection	work clothes.	 Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves. 	
Respiratory protection	: No respiratory protection is ordina conditions of use. In accordance with good industria precautions should be taken to av If engineering controls do not mai concentrations to a level which is health, select respiratory protection specific conditions of use and me Check with respiratory protective Where air-filtering respirators are appropriate combination of mask Select a filter suitable for combine and vapours [Type A/Type P boili meeting EN14387 and EN143.	al hygiene practices, void breathing of material. intain airborne adequate to protect worker on equipment suitable for the eting relevant legislation. equipment suppliers. suitable, select an and filter. ed particulate/organic gases	
Thermal hazards	: Not applicable		
Hygiene measures	: Exposure to this product should b reasonably practicable. Reference Health and Safety Executive's pul Essentials".	e should be made to the	
Environmental exposure c	ontrols		
General advice	: Take appropriate measures to full relevant environmental protection contamination of the environment Section 6. If necessary, prevent to being discharged to waste water. treated in a municipal or industria before discharge to surface water Local guidelines on emission limit must be observed for the discharg vapour.	l legislation. Avoid t by following advice given in undissolved material from Waste water should be I waste water treatment plant r. ts for volatile substances	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	amber
Odour	:	Slight hydrocarbon

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Odour Threshold	: Data not available	
рН	: Not applicable	
pour point	: -15 °CMethod: ASTM D97	
Initial boiling point and boiling range	: > 280 °Cestimated value(s)	
Flash point	: 250 °C Method: ASTM D92 (COC)	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Data not available	
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.899 (15 °C)	
Density	: 899 kg/m3 (15.0 °C) Method: ASTM D4052	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: log Pow: > 6(based on information	n on similar products)
Auto-ignition temperature	: > 320 °C	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 138 mm2/s (40.0 °C) Method: ASTM D445	
	14.4 mm2/s (100 °C) Method: ASTM D445	

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Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
9.2 Other information		
Conductivity	: This material is not expected to be a	a static accumulator.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

Stable. No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions	: Reacts with strong oxidising agents.
10.4 Conditions to avoid	
Conditions to avoid	: Extremes of temperature and direct sunlight.
10.5 Incompatible materials	
Materials to avoid	: Strong oxidising agents.
10.6 Hazardous decomposition p	products
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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:

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Acute oral toxicity	: LD50 rat: > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classific	cation criteria are not met.
Acute inhalation toxicity	: Remarks: Based on available data, t are not met.	he classification criteria
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classific	cation 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: For respiratory and skin sensitisation:, Not a sensitiser., Based on available data, the classification criteria are not met.

Components:

Calcium sulphonate:

Remarks: May cause an allergic skin reaction in sensitive individuals.

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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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).

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

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

Remarks: Slightly irritating to respiratory system.

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

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Summary on evaluation o	f the CMR properties	
Germ cell mutagenicity-	: This product does not meet the criter	ria for classification in
Assessment	categories 1A/1B.	
Assessment	Calegones TA/TB.	
Carcinogenicity -	: This product does not meet the criter	ria for classification in
Assessment	categories 1A/1B.	
Poproductivo tovicity	. This product does not most the criter	ria for classification in
Reproductive toxicity -	: This product does not meet the criter	na for classification in
Assessment	categories 1A/1B.	

SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment Product:	:	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).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Toxicity to fish (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic:
toxicity)		Based on available data, the classification criteria are not met.
Toxicity to crustacean (Acute	:	Remarks: LL/EL/IL50 > 100 mg/l
toxicity)		Practically non toxic:
		Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic	:	Remarks: LL/EL/IL50 > 100 mg/l
plants (Acute toxicity)		Practically non toxic:
		Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic		Remarks: Data not available
toxicity)	•	
Toxicity to crustacean	:	Remarks: Data not available
(Chronic toxicity)		
Toxicity to microorganisms (Acute toxicity)	•	Remarks: Data not available

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12.2 Persistence and degradability	y	
Product:		
Biodegradability	 Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment. 	
12.3 Bioaccumulative potential		
Product:		
Bioaccumulation	Remarks: Contains components with the potential to bioaccumulate.	
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on info products)	rmation on similar
12.4 Mobility in soil		
Product:		
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. 	
12.5 Results of PBT and vPvB ass		
Product:		
Assessment	: This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.	
12.6 Other adverse effects		
Product:		
Additional ecological information	 Does not have ozone depletion poten ozone creation potential or global war is a mixture of non-volatile componen released to air in any significant quan conditions of use. Poorly soluble mixture., Causes physio organisms. Mineral oil does not cause chronic tox organisms at concentrations less than 	rming potential., Product its, which will not be tities under normal ical fouling of aquatic kicity to aquatic

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: 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

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		methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses	
	Waste product should not be ground water, or be disposed Waste, spills or used product		
Contaminated packaging	to a recognized collector or c the collector or contractor sho	prevailing regulations, preferably contractor. The competence of ould be established beforehand. ance with applicable regional, regulations.	
Local legislation			
Waste catalogue	:		
	EU Waste Disposal Code (EV	WC):	
Waste Code	:		
	13 02 05*		
Remarks	: Disposal should be in accordant national, and local laws and r	ance with applicable regional, regulations.	
	Classification of waste is alwauser.	ays the responsibility of the end	

SECTION 14: Transport information

14.1 UN number	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.2 Proper shipping name	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.3 Transport hazard class	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.4 Packing group	

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ADR RID IMDG IATA	 Not regulated as a dangerous good 		
14.5 Environmental hazards			
ADR RID IMDG	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good 		
14.6 Special precautions for user			
Remarks	: Special Precautions: Refer to Section 7 for special precautions which a user nee needs to comply with in connection with	eds to be aware of or	

14.7 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.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances s (Annex XIV)	ubject to authorisation : Product is not subject to Authorisation under REACH.
Volatile organic compounds	: 0%
Other regulations	 The regulatory information is not intended to be comprehensive. Other regulations may apply to this material. Environmental Protection Act 1990 (as amended). Health and Safety at Work etc. Act 1974. Consumers Protection Act 1987. Pollution Prevention and Control Act 1999. Environment Act
	1995. Factories Act 1961. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine
	Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended).
	Control of Major Accident Hazards Regulations 1999 (as amended). Renewable Transport Fuel Obligations Order 2007 (as amended). Energy Act 2011. Environmental Permitting

(England and Wales) Regulations 2010 (as amended). Waste

 (England and Wales) Regulations 2011 (as amended). Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. 	Shell Rotella DD+ 40		
 Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV. 	Version 4.3	Revision Date 25.09.2019	Print Date 26.09.2019
Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments. Directive 1994/33/EC on the protection of young people at work and its amendments. Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.		 (England and Wales) Regulations 2011 Planning (Hazardous Substances) Act 1 regulations. The Environmental Protection Ozone-Depleting Substances) Regulation Regulation (EC) No 1907/2006 of the End and of the Council of 18 December 2006 Registration, Evaluation, Authorisation at Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the End and of the Council of 18 December 2006 Registration, Evaluation, Authorisation at Chemicals (REACH), annex XIV. Regulation (EC) No 1907/2006 of the End and of the Council of 18 December 2006 Registration, Evaluation, Authorisation at Chemicals (REACH), annex XVII. Directive 2004/37/EC on the protection of risks related to exposure to carcinogens and its amendments. Directive 1994/33/EC on the protection of work and its amendments. Council Directive 92/85/EEC on the intro to encourage improvements in the safet pregnant workers and workers who have 	(as amended). 990 and associated on (Controls on ons 2011. uropean Parliament 6 concerning the and Restriction of uropean Parliament 6 concerning the and Restriction of of workers from the s or mutagens at work of young people at oduction of measures y and health at work of e recently given birth

The components of this product are reported in the following inventories:

EINECS	:	Not established.
TSCA	:	All components listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Full text of H-Staten H304 H317	nents May be fatal if swallowed and enters airways. May cause an allergic skin reaction.
Full text of other ab	breviations
Asp. Tox. Skin Sens. Abbreviations and Ac	Aspiration hazard Skin sensitisation cronyms : The standard abbreviations and acronyms used in this document 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

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Shell Rotella DD+		
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/ersion 4.3	Revision Date 25.09.2019 Carriage of Dangerous Goods by R AICS = Australian Inventory of Che ASTM = American Society for Testi BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylb CAS = Chemical Abstracts Service CEFIC = European Chemical Indus CLP = Classification Packaging and COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normu DMEL = Derived Minimal Effect Level DSL = Canada Domestic Substance EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Chemicals Ager EINECS = The European Inventory Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and Ne Inventory EWC = European Waste Code GHS = Globally Harmonised Syster Labelling of Chemicals IARC = International Agency for Re IATA = International Agency for Re IATA = International Maritime Dan INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test determination of polycyclic aromatic KECI = Korea Existing Chemicals IN	mical Substances ing and Materials enzene, Xylenes etry Council d Labelling ng vel e List cotoxicology and ncy of Existing Commercial w Chemical Substances m of Classification and esearch on Cancer Association gerous Goods f method N° 346 for the cs DMSO-extractables nventory Loading/Inhibitory loading
	OE_HPV = Occupational Exposure PBT = Persistent, Bioaccumulative PICCS = Philippine Inventory of Ch	and Toxic
	Substances PNEC = Predicted No Effect Conce REACH = Registration Evaluation A Chemicals	And Authorisation Of
	RID = Regulations Relating to Inter Dangerous Goods by Rail	national Carriage of

According to EC No 1907/2006 as amended as at the date of this SDS

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	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	
Further information		
Training advice	:	
	Provide adequate information, instrue operators.	ction and training for
Other information	: No Exposure Scenario annex is attached to this safety data sheet. It is a non-classified mixture containing hazardous substances as detailed in Section 3; relevant information from Exposure Scenarios for the hazardous substances contained have been integrated into the core sections 1-16 of this SDS.	
	A vertical bar () in the left margin inc from the previous version.	licates an amendment
Sources of key data used to compile the Safety Data Sheet	:	
	The quoted data are from, but not lim sources of information (e.g. toxicolog Health Services, material suppliers' o IUCLID date base, EC 1272 regulation	jical data from Shell data, CONCAWE, EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.