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

1.1 Product identifier

Trade name	:	Shell Naturelle S4 Gear Fluid 150
Product code	:	001E9935

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

Use of the	: Gear lubricant.
Substance/Mixture	

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	 Shell Markets (Middle East) Limited 8th floor, Dubai Convention Tower Za'abeel 307 Dubai United Arab Emirates
Telephone	: (+971) 43035333
Telefax	: (+971) 43321591
Email Contact for Safety Data Sheet	: If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

1.4 Emergency telephone number

: (+971) 43035333

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.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

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Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physica GHS criteria. HEALTH HAZARDS: Not classified as a health h GHS criteria. ENVIRONMENTAL HAZAI Not classified as an enviro under GHS criteria.	l hazard under nazard under RDS:
Precautionary statements	: Prevention:		
	Response:	No precautionary phrases.	
	Storage:	No precautionary phrases.	
	Disposal:	No precautionary phrases.	
	Disposal.	No precautionary phrases.	

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
- : Blend of synthetic esters and additives.

SECTION 4: First aid measures

4.1 Description of first aid measures		
General advice	: Not expected to be a health hazard when used under normal conditions.	
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	

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In case of eye contact	water and follow by washing with soap if availIf persistent irritation occurs, obtain medical aFlush eye with copious quantities of water.	
	Remove contact lenses, if present and easy to rinsing. If persistent irritation occurs, obtain medical a	
If swallowed	: In general no treatment is necessary unless la are swallowed, however, get medical advice.	arge quantities
4.2 Most important symptoms and effe	ects, both acute and delayed	
Symptoms	: Oil acne/folliculitis signs and symptoms may in of black pustules and spots on the skin of exp Ingestion may result in nausea, vomiting and/	osed areas.
4.3 Indication of any immediate medical attention and special treatment needed		
Treatment	: Treat symptomatically.	

SECTION 5: Firefighting measures

5.1 Extinguishing media

	cala		
Suitable ext	inguishing media :	am, water spray or fog. Dry chemical pow xide, sand or earth may be used for smal	
Unsuitable media	extinguishing :	not use water in a jet.	·
5.2 Special hazards	arising from the sul	nce or mixture	
Specific haz firefighting	zards during :	zardous combustion products may includ kture of airborne solid and liquid particulat noke). Carbon monoxide may be evolved mbustion occurs. Unidentified organic and mpounds.	tes and gases if incomplete
5.3 Advice for firefighters			
Special prot for firefighte	tective equipment : ers	oper protective equipment including chem oves are to be worn; chemical resistant su ge contact with spilled product is expecter eathing Apparatus must be worn when ap confined space. Select fire fighter's clothin evant Standards (e.g. Europe: EN469).	it is indicated if d. Self-Contained proaching a fire in
Specific ext methods	inguishing :	e extinguishing measures that are approprotection of the surrounding environmeter of the surrounding envit environmeter of the surrounding environmeter of the	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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	Personal precautions	: Avoid contact with skin and eyes.	

6.2 Environmental precautions

c d	lse appropriate containment to avoid environmental ontamination. Prevent from spreading or entering drains, itches or rivers by using sand, earth, or other appropriate arriers.
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Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for 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.
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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

General 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 Precautions 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.
Product Transfer :	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

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7.2 Conditions for safe storage, in	cluding any incompatibilities	
Other data	: Keep container tightly closed and place. Use properly labeled and cl	
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers mild steel or high density polyethy Unsuitable material: PVC.	0,
Container Advice	: Polyethylene containers should no temperatures because of possible	1 0

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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 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.

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General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

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.

Hand protection

Rema	arks	:	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.
Skin a	and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.

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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 [Type A/Type P boiling point >65°C (149°F)].
Thermal 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

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: clear
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: Method: Unspecified
Initial boiling point and boiling range	: > 280 °Cestimated value(s)
Flash point	: 280 °C Method: DIN ISO 2592

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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	: 0,920 (15 °C)	
Density	: 920 kg/m3 (15,0 °C) Method: DIN EN ISO 12185	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on similar pr	oducts)
Auto-ignition temperature	: > 320 °C	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 135 - 165 mm2/s (40 °C) Method: ISO 3104	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
9.2 Other information		
Conductivity	: This material is not expected to be a static a	accumulator.
Decomposition temperature	: Data not available	

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

products

Stable.

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 produ	ucts
Hazardous decomposition	: Hazardous decomposition products are not expected to form

during normal storage.

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.
Αςι	ite toxicity		
	Product:		
	Acute oral toxicity	:	LD50 rat: > 5.000 mg/kg Remarks: Expected to be of low toxicity:
	Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
	Acute dermal toxicity	:	LD50 Rabbit: > 5.000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper

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cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

:

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

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Not considered 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: Slightly irritating to respiratory system.

SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment	: Information given is based on product data, 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: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to daphnia and othe aquatic invertebrates (Acute toxicity)	
Toxicity to algae (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available
Toxicity to daphnia and othe aquatic invertebrates (Chronic toxicity) Toxicity to bacteria (Acute	: Remarks: Data not available
toxicity)	Remarks: Data not available

12.2 Persistence and degradability

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Pre	oduct:		
	Biodegradability	: Remarks: Readily biodegradable.	
no data	available		
12.3 Bi	oaccumulative potential		
Pre	oduct:		
	Bioaccumulation	: Remarks: Contains components with t bioaccumulate.	he potential to
	Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on informat	ion on similar products)
12.4 Mo	obility in soil		
Pre	oduct:		
	Mobility	 Remarks: Liquid under most environm enters soil, it will adsorb to soil particle mobile. Remarks: Floats on water. 	
12.5 Re	sults of PBT and vPvB ass	ssment	
no data	available		
12.6 Ot	her adverse effects		
Pro	oduct:		
	Additional ecological information	 Product is a mixture of non-volatile cor expected to be released to air in any s Not expected to have ozone depletion photochemical ozone creation potentia potential. Poorly soluble mixture., May cause ph organisms. 	ignificant quantities., potential, al or global warming

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 methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
Contaminated packaging	 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. Dispose in accordance with prevailing regulations, preferably

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	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 infor	mation			
14.1 UN number				
ADR IMDG IATA	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good 			
14.2 Proper shipping name				
ADR IMDG IATA	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good 			
14.3 Transport hazard class				
ADR IMDG IATA	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good 			
14.4 Packing group				
ADR IMDG IATA	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good 			
14.5 Environmental hazards				
ADR IMDG	Not regulated as a dangerous goodNot regulated as a dangerous good			
14.6 Special precautions for use				
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.			
14.7 Transport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code			
Pollution category Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable Not applicable 			
Additional Information	: 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

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

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

SECTION 16: Other information

Abbreviations and Acronyms	:	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 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 DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty 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 Agency for Research on Cancer
		INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

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KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory LL50 = Lethal Loading fifty MARPOL = International Convention for the Preventio Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / N Observed Effect Level OE_HPV = Occupational Exposure - High Production PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chem Substances PNEC = Predicted No Effect Concentration REACH = Registration Evaluation And Authorisation Chemicals	y loading on of No i Volume nical Of			
: Provide adequate information, instruction and training operators.) for			
: A vertical bar () in the left margin indicates an amend from the previous version.	lment			
	hell			
	Revision Date 08/31/2017VerticeKECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/L = Lethal Loading/Effective Loading/Inhibitory LL50 = Lethal Loading fifty MARPOL = International Convention for the Prevention Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / Nobserved Effect Level OE_HPV = Occupational Exposure - High Production PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemicals RID = Regulations Relating to International Carriage of Dangerous Goods by Rail 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:Provide adequate information, instruction and training operators.:A vertical bar () in the left margin indicates an amend from the previous version.:The quoted data are from, but not limited to, one or m sources of information (e.g. toxicological data from Si			

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.