Version 1.0

 Revision Date 19.09.2016
 Print Date 20.09.2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name	:	Shell Rimula R1 Multi 20W-50

Product code	:	001C4560
Product code	•	00104560

Manufacturer or supplier's details

Manufacturer/Supplier	: Shell India Markets Private Limited (U23201TN2004PTC053147) 2nd Floor, Campus 4A RMZ Millenia Park 143 Dr. MGR Road, Perungudi CHENNAI 600096 India
Telephone	: (+91) 04443450000
Telefax	: (+91) 04443451516
Emergency telephone number	: +91 22 6516 1058
Recommended use of the che	emical and restrictions on use
Recommended use	: Engine oil.

2. COMPOSITION/INFORMATION ON INGREDIENTS

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: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 22027 04 4 70200 00 0 70000 07 4 000 07 5 00004 000
	68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

Hazardous components

Chemical name	CAS-No.	Classification	Classification	Concentration
	EC-No.	(67/548/EEC)	(REGULATION	[%]
	Registration		(EC) No	
	number		1272/2008)	
Interchangeable low	Not Assigned		Asp. Tox. 1; H304	0 - 90
viscosity base oil				
(<20,5 cSt @40°C) *				

For explanation of abbreviations see section 16.

Version 1.0

Revision Date 19.09.2016

3. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture.

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

Other hazards

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.

4. FIRST-AID MEASURES

General advice	: Not expected to be a health hazard when used under normal conditions.
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. 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.

Version 1.0		Revision Date 19.09.2016	Print Date 20.09.2016
delayed	lı	ngestion may result in nausea, vomitin	g and/or diarrhoea.
Protection of first-aiders	а	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.	
Notes to physician	: Т	reat symptomatically.	
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media		oam, water spray or fog. Dry chemica lioxide, sand or earth may be used for	
Unsuitable extinguishing media	: C	Do not use water in a jet.	
Specific hazards during firefighting	A g C c	lazardous combustion products may in a complex mixture of airborne solid and ases (smoke). Carbon monoxide may be evolved if ind accurs. Unidentified organic and inorganic com	d liquid particulates and complete combustion
Specific extinguishing methods		Jse extinguishing measures that are an ircumstances and the surrounding env	
Special protective equipment for firefighters	g la E a	Proper protective equipment including on loves are to be worn; chemical resistate arge contact with spilled product is exp Breathing Apparatus must be worn whe confined space. Select fire fighter's cl elevant Standards (e.g. Europe: EN46	nt suit is indicated if ected. Self-Contained en approaching a fire in othing approved to

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes.
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.
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.

ersion 1.0	Revision Date 19.09.2016	Print Date 20.09.2016			
	Soak up residue with an absorbe suitable material and dispose of p				
Additional advice	see Chapter 8 of this Safety Data	 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. 			
HANDLING AND STORAGE					
General Precautions	: Use local exhaust ventilation if th vapours, mists or aerosols. Use the information in this data s assessment of local circumstance appropriate controls for safe hand this material.	heet as input to a risk es to help determine			
Advice on safe handling	: Avoid prolonged or repeated con Avoid inhaling vapour and/or mis When handling product in drums, worn and proper handling equipn Properly dispose of any contamir materials in order to prevent fires	ts. , safety footwear should be nent should be used. nated rags or cleaning			
Avoidance of contact	: Strong oxidising agents.				
Product Transfer	: This material has the potential to Proper grounding and bonding pu during all bulk transfer operations	rocedures should be used			
Storage					
Other data	 Keep container tightly closed and place. Use properly labeled and closabl 				
	Store at ambient temperature.				
Packaging material	: Suitable material: For containers steel or high density polyethylene Unsuitable material: PVC.				
Container Advice	: Polyethylene containers should n temperatures because of possible				

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Basis
		exposure)	Permissible	

 Version 1.0
 Revision Date 19.09.2016
 Print Date 20.09.2016

		concentration	
Not Assigned	TWA (Mist)	5 mg/m3	IN OEL
Not Assigned	STEL (Mist)	10 mg/m3	IN OEL
Not Assigned	TWA	5 mg/m3	US. ACGIH
			Threshold
			Limit Values
Not Assigned	TWA (Mist)	5 mg/m3	India.
			Permissible
			levels of certain
			chemical
			substances
			in work
			environment.
Not Assigned	(Mist)	10 mg/m3	India.
Ŭ	× ,	U U	Permissible
			levels of
			certain
			chemical
			substances
			in work
		5	environment.
-			OSHA Z-1
Not Assigned		5 mg/m3	ACGIH
	Not Assigned	Not Assigned STEL (Mist) Not Assigned TWA ((inhalable fraction)) Not Assigned TWA (Mist) Not Assigned (Mist) Not Assigned TWA (Mist)	Not AssignedTWA (Mist)5 mg/m3Not AssignedSTEL (Mist)10 mg/m3Not AssignedTWA ((inhalable fraction))5 mg/m3Not AssignedTWA (Mist)5 mg/m3Not Assigned(Mist)10 mg/m3Not Assigned(Mist)10 mg/m3Not AssignedTWA (Mist)5 mg/m3Not AssignedTWA (Inhalable5 mg/m3

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.
----------------------	---

Version 1.0	Revision Date 19.09.2016	Print Date 20.09.2016
	Where material is heated, sprayed greater potential for airborne conc	
	General Information: Define procedures for safe handlin controls. Educate and train workers in the h measures relevant to normal activi product. Ensure appropriate selection, testi equipment used to control exposu equipment, local exhaust ventilation Drain down system prior to equipm maintenance. Retain drain downs in sealed stora subsequent recycle. Always observe good personal hyp washing hands after handling the to drinking, and/or smoking. Routine protective equipment to remove co contaminated clothing and footweat Practice good housekeeping.	azards and control ities associated with this ing and maintenance of re, e.g. personal protective on. nent break-in or age pending disposal or giene measures, such as material and before eating, ily wash work clothing and ontaminants. Discard

Personal protective equipment

Protective measures

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

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)].
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.

ersion 1.0	Revision Date 19.09.2016	Print Date 20.09.201
	Application of a non-perfumed m	oisturizer is recommended.
	For continuous contact we recombreakthrough time of more than for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are fol a good predictor of glove resista dependent on the exact compos Glove thickness should be typicat depending on the glove make ar	240 minutes with preference e gloves can be identified. For recommend the same, but fering this level of protection case a lower breakthrough as appropriate maintenance lowed. Glove thickness is not nce to a chemical as it is ition of the glove material. ally greater than 0.35 mm
Eye protection	: If material is handled such that it protective eyewear is recommen	
Skin and body protection	: Skin protection is not ordinarily r work clothes. It is good practice to wear chemi	
Thermal hazards	: Not applicable	
Environmental exposure o	controls	
General advice	: Take appropriate measures to fur relevant environmental protection contamination of the environmer Chapter 6. If necessary, prevent being discharged to waste water treated in a municipal or industriat before discharge to surface water Local guidelines on emission lim must be observed for the dischar vapour.	n legislation. Avoid at by following advice given ir t undissolved material from . Waste water should be al waste water treatment plar er. its for volatile substances

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	: <= -24 °C / <= -11 °FMethod: Unspecified
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 235 °C / 455 °F Method: ASTM D92 (COC)

Version 1.0	Revision Date 19.09.2016	Print Date 20.09.2016
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 / 68 °F) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.894 (15 °C / 59 °F)	
Density	: 894 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on	similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 140 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	19 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity Decomposition temperature	This material is not expected to beData not available	e a static accumulator.

10. STABILITY AND REACTIVITY

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

Version 1.0		Revision Date 19.09.2016	Print Date 20.09.2016
Chemical stability	:	Stable.	
Possibility of hazardous	:	Reacts with strong oxidising agents.	
reactions Conditions to avoid	:	Extremes of temperature and direct sur	nlight.
Incompatible materials	:	Strong oxidising agents.	
Hazardous decomposition products	:	Hazardous decomposition products are during normal storage.	not expected to form

11. TOXICOLOGICAL INFORMATION

	Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
	Information on likely routes of exposure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acu	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 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

Version 1.0Revision Date 19.09.2016Print Date 20.09.2016

Product:

Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

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 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:

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.

Version 1.0

Revision Date 19.09.2016

Print Date 20.09.2016

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

Remarks: Slightly irritating to respiratory system.

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 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).

Ecotoxicity

Product:	
Toxicity to fish (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic	: Remarks: Data not available
toxicity) Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available
Persistence and degradability	
Product:	
Biodegradability	: Remarks: Expected to be not readily biodegradable., Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment.
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.

octanol/water

Version 1.0	Revision Date 19.09.2016	Print Date 20.09.2016	
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. 		
Other adverse effects			
no data available Product:			
Additional ecological information	 Product is a mixture of non-volatile expected to be released to air in an Not expected to have ozone depleti photochemical ozone creation pote potential. Poorly soluble mixture., May cause organisms. Mineral oil is not expected to cause aquatic organisms at concentration 	y significant quantities., ion potential, ntial or global warming physical fouling of aquatic any chronic effects to	

13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: 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.
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
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.

14. TRANSPORT INFORMATION

International Regulations

ADR

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Version 1.0

Revision Date 19.09.2016

Print Date 20.09.2016

Not regulated as a dangerous good

Transport in bulk according 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
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.
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.

15. REGULATORY INFORMATION

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

The Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 (amended version issued 2000). The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through 1987. India Central motor Vehicles (Amendment) Rules 1993.

Other international regulations

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

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

16. OTHER INFORMATION

Full text of H-Stateme	ents				
H304	May be fatal if swallowed and enters airways.				
Full text of other abbreviations					
Asp. Tox.	Aspiration hazard				
Abbreviations and Acro	onyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.				
SDS Regulation	: Regulation 1907/2006/EC				
Further information					
Other information	: A vertical bar () in the left margin indicates an amendment from the previous version.				

Version 1.0

Revision Date 19.09.2016

Print Date 20.09.2016

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.