1. IDENTIFICATION OF THE SU Material Name Uses		TANCE/PREPARATION AND COMPANY/UNDERTAKING Shell Rimula R3 50 Engine oil.
Product Code	:	001C4574
Manufacturer/Supplier	:	Shell India Markets Private Limited 2nd Floor, Campus 4A RMZ Millenia Park 143 Dr. MGR Road, Perungudi CHENNAI 600096 India
Telephone Fax	:	(+91) 04443450000 (+91) 04443451516
Emergency Telephone Number	:	+91 22 6516 1058

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Preparation Description** : Highly refined mineral oils and additives.

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Sulphurised alcium phenate				R53	1.00 - 3.00 %
Polyolefin polyamine succinimide, polyol				R53	1.00 - 3.00 %
Calcium sulphonate			Xi	R43; R53	0.10 - 0.50 %

Additional Information	:	The highly refined mineral oil contains <3% (w/w) DMSO-
		extract, according to IP346. Refer to chapter 16 for full text of
		EC R-phrases.

3. HAZARDS IDENTIFICATION		
EC Classification	:	Not classified as dangerous under EC criteria.
Health Hazards	:	Not expected to be a health hazard when used under normal conditions. 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.
Signs and Symptoms	:	Oil acne/folliculitis signs and symptoms may include formation

Safety Hazards Environmental Hazards	:	of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Not classified as flammable but will burn. Not classified as dangerous for the environment.
4. FIRST AID MEASURES		
General Information	:	Not expected to be a health hazard when used under normal conditions.
Inhalation	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
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.
Eye Contact	:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Advice to Physician	:	Treat symptomatically.
5. FIRE FIGHTING MEASURES Clear fire area of all non-emergency personnel.		

Specific Hazards	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing	:	Foam, water spray or fog. Dry chemical powder, carbon
Media		dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing	:	Do not use water in a jet.
Media		
Protective Equipment for Firefighters	:	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures	<ul> <li>Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.</li> </ul>
Clean Up Methods	: 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.
Additional Advice	<ul> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
7. HANDLING AND STORAGE	

General Precautions	:	Use local exhaust ventilation if there is risk of inhalation of
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	vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. 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.
Handling	<ul> <li>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.</li> </ul>
Storage	<ul> <li>Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F</li> </ul>
Recommended Materials	: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials	: PVC.
Additional Information	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

			1		
Material	Source	Туре	ppm	mg/m3	Notation
Oil mist, mineral	IN OEL	TWA		5 mg/m3	
		[Mist.]			
	IN OEL	STEL		10 mg/m3	
		[Mist.]			
	ACGIH	TWA		5 mg/m3	
		[Inhalable			
		fraction.]			
Exposure Contro Personal Protect Equipment Respiratory P	tive :	depending upon based on a risk Appropriate mea airborne concen mist formed, the concentrations t Personal protect recommended n No respiratory p conditions of use practices, preca material. If engir concentrations t health, select re- specific conditio	potential exp assessment of asures includ trations. Whe re is greater o be generate tive equipment ational stand rotection is o e. In accorda utions should neering contro o a level whic spiratory profins of use and	bosure condition of local circumst e: Adequate ven ere material is he potential for airb ed. nt (PPE) should lards. Check with rdinarily required nce with good in I be taken to avo ols do not mainta ch is adequate to rection equipment d meeting releva	ntilation to control eated, sprayed or horne meet h PPE suppliers. d under normal idustrial hygiene bid breathing of ain airborne o protect worker ht suitable for the

Hand Protection	<ul> <li>air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point &gt;65°C(149 °F)].</li> <li>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, glove thickness, 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.</li> </ul>
Eye Protection	: Wear safety glasses or full face shield if splashes are likely to occur.
Protective Clothing	: Skin protection not ordinarily required beyond standard issue work clothes.
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.
Environmental Exposure Controls	<ul> <li>Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.</li> </ul>
9. PHYSICAL AND CHEMICAL	PROPERTIES
Appearance	: Amber. Liquid at room temperature.
Odour	: Slight hydrocarbon. Characteristic mineral oil
рН	: Not applicable.
Initial Boiling Point and Boiling Range	: > 280 °C / 536 °F estimated value(s)
Pour point	: Typical -9 °C / 16 °F
Flash point	: Typical 252 °C / 486 °F (COC)
Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Density	: Typical 895 kg/m3 at 15 °C / 59 °F
Water solubility	: Negligible.
Solubility in other solvents	: Data not available
n-octanol/water partition coefficient (log Pow)	: > 6 (based on information on similar products)

efficient (log Pow)		
namic viscosity	:	Data not available
nematic viscosity	:	Typical 212 mm2/s at 40 °C / 104 °F
pour density (air=1)	:	> 1 (estimated value(s))
aporation rate (nBuAc=1)	:	Data not available
	pour density (air=1)	namic viscosity : nematic viscosity :

# STABILITY AND REACTIVITY Stability : Stable.

Conditions to Avoid Materials to Avoid Hazardous Decomposition Products	<ul> <li>Extremes of temperature and direct sunlight.</li> <li>Strong oxidising agents.</li> <li>Hazardous decomposition products are not expected to form during normal storage.</li> </ul>
11. TOXICOLOGICAL INFORM	
Basis for Assessment	<ul> <li>Information given is based on data on the components and the toxicology of similar products.</li> </ul>
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	<ul> <li>Not considered to be an inhalation hazard under normal conditions of use.</li> </ul>
Skin Irritation	: 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.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.
Mutagenicity	: Not considered a mutagenic hazard.
Carcinogenicity	: Product contains mineral oils of types shown to be non- carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
Reproductive and	: Not expected to be a hazard.
<b>Developmental Toxicity</b>	
Additional Information	: 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. Continuous contact with used engine oils has caused skin cancer in animal tests.

## 12. ECOLOGICAL INFORMATION

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.

Acute Toxicity	Poorly soluble mixture. May cause physic organisms. Expected to be practically no 100 mg/l (to aquatic organisms) (LL/EL nominal amount of product required to pre- extract). Mineral oil is not expected to effects to aquatic organisms at concentrat	on toxic: LL/EL/IL50 > .50 expressed as the prepare aqueous test o cause any chronic
Microorganisms	ata not available	
Mobility	quid under most environmental condition enters soil, it will adsorb to soil particles obile.	
Persistence/degradability	expected to be not readily biodegradable. e expected to be inherently biodegradal ontains components that may persist in t	ble, but the product
<b>—</b> / <b>—</b>		

Bioaccumulation Other Adverse Effects	:	Contains components with the potential to bioaccumulate. Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.
13. DISPOSAL CONSIDERATION Material Disposal	ONS :	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.
Container Disposal Local Legislation	:	Dispose in accordance with prevailing regulations, preferably to a recognised 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**

#### Land (as per ADR classification): Not regulated

This material is not classified as dangerous under ADR regulations.

#### IMDG

This material is not classified as dangerous under IMDG regulations.

#### IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Classification EC Symbols EC Risk Phrases	:	Not classified as dangerous under EC criteria. No Hazard Symbol required Not classified.
EC Safety Phrases	÷	Not classified.
Chemical Inventory Status		
EINECS	:	All components listed or polymer exempt.
TSCA	:	All components listed.
Sensitiser not sufficient to classify	:	Contains calcium sulphonate. May produce an allergic reaction.

Other Information : 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.

#### **16. OTHER INFORMATION**

R-phrase(s)

R43 R53	Not classified. May cause sensitisation by skin contact. May cause long-term adverse effects in the aquatic environment.		
MSDS Version	Number	:	1.1
MSDS Effective	e Date	:	30.09.2011
MSDS Revisio	าร	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Distribu	tion	:	The information in this document should be made available to all who may handle the product.
Disclaimer		:	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.