1. IDENTIFICATION OF THE SU Material Name Uses	N OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKIN Shell Spirax S1 ATF Type F Transmission oil.				
Product Code	:	001D8293			
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.

### Hazardous Components

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Methacrylate copolymer			Xi	R36	< 3.00 %

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 of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.		
Safety Hazards Environmental Hazards	:	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
Advice to Physician	are swallowed, however, get medical advice. : Treat symptomatically.
Auvice to Filysiciali	. Treat symptomatically.
5. FIRE FIGHTING MEASURE	
Clear fire area of all non-em	nergency 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 Media	: Do not use water in a jet.
Protective Equipment for	: Proper protective equipment including breathing apparatus
	must be worn when approaching a fire in a confined space.
Firefighters	
ACCIDENTAL RELEASE ME Avoid contact with spilled o equipment see Chapter 8 o	
Avoid contact with spilled o equipment see Chapter 8 o disposal. Observe the relev	EASURES or released material. For guidance on selection of personal protective of this Material Safety Data Sheet. See Chapter 13 for information on vant local and international regulations.
Avoid contact with spilled o equipment see Chapter 8 o	<ul> <li>EASURES</li> <li>br released material. For guidance on selection of personal protective of this Material Safety Data Sheet. See Chapter 13 for information on vant local and international regulations.</li> <li>Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading</li> </ul>
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		appropriate controls for safe handling, storage and disposal of this material.
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.
Storage	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: $0 - 50 \degree C / 32 - 122 \degree F$
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.

Material	Source	Туре	ppm	mg/m3	Notation
Oil mist, mineral	IN OEL	TWA [Mist.]		5 mg/m3	
	IN OEL	STEL [Mist.]		10 mg/m3	
	ACGIH	TWA [Inhalable fraction.]		5 mg/m3	
Exposure Contro Personal Protect Equipment		depending upo based on a risk Appropriate me airborne conce mist formed, th concentrations Personal prote	n potential assessme easures incl ntrations. V ere is great to be gene ctive equipr	exposure condition nt of local circums ude: Adequate ve /here material is h er potential for air	ntilation to control leated, sprayed or borne
Respiratory P	Protection :	conditions of upractices, preconditions of upractices, preconditions of the practices, preconditions of the practices, preconcentrations health, select respecific conditions of the precondition of the practices	se. In accor autions sho ineering co to a level w espiratory pro ons of use a piratory pro oirators are mask and f culate/orga	and meeting releva tective equipment suitable, select ar ilter. Select a filter	ndustrial hygiene oid breathing of tain airborne to protect worker ent suitable for the ant legislation. suppliers. Where appropriate

#### **Occupational Exposure Limits**

Hand Protection	: 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.
Eye Protection	<ul> <li>Wear safety glasses or full face shield if splashes are likely to occur.</li> </ul>
Protective Clothing	<ul> <li>Skin protection not ordinarily required beyond standard issue work clothes.</li> </ul>
Monitoring Methods	<ul> <li>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.</li> </ul>
Environmental Exposure Controls	: Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.
9. PHYSICAL AND CHEMICAL F	PROPERTIES
Appearance	: Red. Liquid at room temperature.
Odour	: Slight hydrocarbon.
pН	: Not applicable.
Initial Boiling Point and Boiling Range	: > 280 °C / 536 °F estimated value(s)
Pour point	: Typical -42 °C / -44 °F
Flash point	: Typical 180 °C / 356 °F (COC)
Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature	: > 320 °C / 608 °F
	. > 020 07000 1
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
<b>e</b> 1	
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Vapour pressure Density	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> </ul>
Vapour pressure Density Water solubility	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>Negligible.</li> </ul>
Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow)	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>Negligible.</li> <li>Data not available</li> </ul>
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Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity	<ul> <li>: &lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>: Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>: Negligible.</li> <li>: Data not available</li> <li>: &gt; 6 (based on information on similar products)</li> <li>: Data not available</li> </ul>
Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity Kinematic viscosity	<ul> <li>: &lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>: Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>: Negligible.</li> <li>: Data not available</li> <li>: &gt; 6 (based on information on similar products)</li> <li>: Data not available</li> <li>: Typical 39.9 mm2/s at 40 °C / 104 °F</li> </ul>
Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity Kinematic viscosity Vapour density (air=1)	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>Negligible.</li> <li>Data not available</li> <li>&gt; 6 (based on information on similar products)</li> <li>Data not available</li> <li>Typical 39.9 mm2/s at 40 °C / 104 °F</li> <li>&gt; 1 (estimated value(s))</li> <li>Data not available</li> </ul>
Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity Kinematic viscosity Vapour density (air=1) Evaporation rate (nBuAc=1)	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>Negligible.</li> <li>Data not available</li> <li>&gt; 6 (based on information on similar products)</li> <li>Data not available</li> <li>Typical 39.9 mm2/s at 40 °C / 104 °F</li> <li>&gt; 1 (estimated value(s))</li> <li>Data not available</li> </ul>
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Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity Kinematic viscosity Vapour density (air=1) Evaporation rate (nBuAc=1) <b>10. STABILITY AND REACTIVITY</b> Stability	<ul> <li>: &lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>: Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>: Negligible.</li> <li>: Data not available</li> <li>: &gt; 6 (based on information on similar products)</li> <li>: Data not available</li> <li>: Typical 39.9 mm2/s at 40 °C / 104 °F</li> <li>: &gt; 1 (estimated value(s))</li> <li>: Data not available</li> </ul>
Vapour pressure Density Water solubility Solubility in other solvents n-octanol/water partition coefficient (log Pow) Dynamic viscosity Kinematic viscosity Vapour density (air=1) Evaporation rate (nBuAc=1) <b>10. STABILITY AND REACTIVITY</b> Stability Conditions to Avoid	<ul> <li>&lt; 0.5 Pa at 20 °C / 68 °F (estimated value(s))</li> <li>Typical 876 kg/m3 at 15 °C / 59 °F</li> <li>Negligible.</li> <li>Data not available</li> <li>&gt; 6 (based on information on similar products)</li> <li>Data not available</li> <li>Typical 39.9 mm2/s at 40 °C / 104 °F</li> <li>&gt; 1 (estimated value(s))</li> <li>Data not available</li> <li>Y</li> <li>Stable.</li> <li>Extremes of temperature and direct sunlight.</li> </ul>

Basis for Assessment		Information given is based on data on the components and the
Dasis for Assessment	·	toxicology of similar products.
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	:	Not considered to be an inhalation hazard under normal conditions of use.
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-
<b>- -</b>		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.
Developmental Toxicity		
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

#### **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 physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
Microorganisms	÷	Data not available
Mobility	:	Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	:	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation	:	Contains components with the potential to bioaccumulate.
Other Adverse Effects	:	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 CONSIDERATIONS	6
	Material Disposal :	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 :	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
	Local Legislation	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 EC Safety Phrases Chemical Inventory Status	::	Not classified as dangerous under EC criteria. No Hazard Symbol required Not classified. Not classified.
EINECS	:	All components listed or polymer exempt.
TSCA	:	All components listed.
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)

R36	Not classified. Irritating to eyes.		3.
MSDS Version	Number :	:	1.2
MSDS Effective Date		:	30.09.2011
MSDS Revisions		:	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.