1. IDENTIFICATION OF THE SU Material Name Uses	:	TANCE/PREPARATION AND COMPANY/UNDERTAKING Shell Spirax S6 AXRME 75W-90 Transmission oil.
Product Code	:	001D8289
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 : Synthetic base oil and additives.

Hazardous Components

Chemical . Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Dialkyl polysulphide	68937-96-2	273-103-3	Xi	R43; R53	1.00 - 5.00 %
N-phenyl-1- naphthylamine	90-30-2	201-983-0	Xi, N	R43; R50/53	< 1.00 %

Additional Information : Refer to chapter 16 for full text of EC R-phrases.

3. HAZARDS IDENTIFICATION

EC Classification	Sensitising. Dangerous for the environment.	
Health Hazards	May cause sensitisation by skin contact. Prolonged or reperskin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used may contain harmful impurities.	he oil
Signs and Symptoms	Skin sensitisation (allergic skin reaction) signs and symptor may include itching and/or a rash. Oil acne/folliculitis signs symptoms may include formation of black pustules and spo on the skin of exposed areas. Ingestion may result in nause vomiting and/or diarrhoea.	and ots
Safety Hazards Environmental Hazards	Not classified as flammable but will burn. Harmful to aquatic organisms, may cause long-term advers	e

effects in the aquatic environment.

4. FIRST AID MEASURES	
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 Media Unsuitable Extinguishing Media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.
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 Clean Up Methods Additional Advice	 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. 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. Local authorities should be advised if significant spillages cannot be contained.
7. HANDLING AND STORAGE General Precautions	: Use local exhaust ventilation if there is risk of inhalation of 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
	2/7

Effective Date 30.09.2011

Material Safety Data Sheet

Handling	 this material. 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 °C / 32 - 122 °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.

Occupational Exposure Limits

Exposure Controls	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. 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 combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].
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

Effective Date 30.09.2011

Material Safety Data Sheet

Eye Protection Protective Clothing Monitoring Methods Environmental Exposure Controls	 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. Wear safety glasses or full face shield if splashes are likely to occur. Skin protection not ordinarily required beyond standard issue work clothes. 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. Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.
9. PHYSICAL AND CHEMICAL	
Appearance	: Amber. Liquid at room temperature.
Odour	: Slight hydrocarbon.
pH Initial Boiling Point and	 Not applicable. > 280 °C / 536 °F estimated value(s)
Boiling Range	. > 200 C7 550 F estimated value(s)
Pour point	: <-45 °C / -49 °F
Flash point	: Typical 215 °C / 419 °F (COC)
Upper / lower Flammability	: Typical 1 - 10 %(V)
or Explosion limits	
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure Density	 < 0.5 Pa at 20 °C / 68 °F (estimated value(s)) Typical 891 kg/m3 at 15.6 °C / 60.1 °F
Water solubility	: Negligible.
n-octanol/water partition	: > 6 (based on information on similar products)
coefficient (log Pow)	
Kinematic viscosity	: Typical 103 mm2/s at 40 °C / 104 °F
Vapour density (air=1)	: > 1 (estimated value(s))
Evaporation rate (nBuAc=1)	: Data not available
10. STABILITY AND REACTIVITY	γ
Stability	: Stable.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Materials to Avoid	: Strong oxidising agents.
Hazardous	: Hazardous decomposition products are not expected to form
Decomposition Products	during normal storage.
11. TOXICOLOGICAL INFORMA	TION
Basis for Assessment	: Information given is based on data on the components and the
Aquita Oral Taxiaita	toxicology of similar products.
Acute Oral Toxicity Acute Dermal Toxicity	 Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat 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.
	4/7

Eye Irritation Respiratory Irritation Sensitisation Repeated Dose Toxicity Mutagenicity Carcinogenicity	 Expected to be slightly irritating. Inhalation of vapours or mists may cause irritation. Expected to be a skin sensitizer. Not expected to be a hazard. Not considered a mutagenic hazard. Components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	: Not expected to be a hazard.
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.

with caution and skin contact avoided as far as possible.

Acute Toxicity Mobility Persistence/degradability Bioaccumulation Other Adverse Effects	 Poorly soluble mixture. May cause physical fouling of aquat organisms. Expected to be harmful: LL/EL/IL50 10-100 mg/l (faquatic organisms) (LL/EL50 expressed as the nomina amount of product required to prepare aqueous test extract). Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile. 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. 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. 	to al If
 13. DISPOSAL CONSIDERATIO Material Disposal Container Disposal Local Legislation 	 S 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. Dispose in accordance with prevailing regulations, preferably t 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	:	Sensitising. Dangerous for the environment. Xi Irritant. R43 May cause sensitisation by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EC Safety Phrases	:	S24 Avoid contact with skin. S37 Wear suitable gloves. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
Chemical Inventory Status		
EINECS	:	All components listed or polymer exempt.
TSCA	:	All components listed.
Classification triggering components	:	Contains dialkylpolysulphide.
Sensitiser not sufficient to classify	:	Contains N-phenyl-1-naphthylamine. 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 R50/53 R52/53 R53	May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause long-term adverse effects in the aquatic environment.		
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