1. IDENTIFICATION OF THE SU Material Name	UBSTANCE/PREPARATION AND COMPANY/UNDERTAKING : Shell Tellus S3 M 68
Uses	: Hydraulic oil
Product Code	: 001D7760
Manufacturer/Supplier	<ul> <li>Shell India Markets Private Limited 2nd Floor, Campus 4A RMZ Millenia Park 143 Dr. MGR Road, Perungudi CHENNAI 600096 India</li> </ul>
Telephone Fax	: (+91) 04443450000 : (+91) 04443451516
Emergency Telephone Number	: +91 22 6516 1058
2. COMPOSITION/INFORMAT	
Preparation Description	: Highly refined mineral oils and additives.
Additional Information	: The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.
3. HAZARDS IDENTIFICATION	I
EC Classification	: Not classified as dangerous under EC criteria.
Health Hazards Signs and Symptoms	<ul> <li>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. High-pressure injection under the skin may cause serious damage including local necrosis. Used oil may contain harmful impurities.</li> <li>Oil acne/folliculitis signs and symptoms may include formation</li> </ul>
	of black pustules and spots on the skin of exposed areas. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Ingestion may result in nausea, vomiting and/or diarrhoea.
Safety Hazards Environmental Hazards	<ul> <li>Not classified as flammable but will burn.</li> <li>Not classified as dangerous for the environment.</li> </ul>
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
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	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. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
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. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

#### 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	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media	:	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	: 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.
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,

Additional Advice	:	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 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 °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
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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 Controls Personal Protective Equipment		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.
<b>Respiratory Protection</b>	:	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene
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Hand Protection Eye Protection Protective Clothing Monitoring Methods	<ul> <li>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 &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 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> <li>Wear safety glasses or full face shield if splashes are likely to occur.</li> <li>Skin protection not ordinarily required beyond standard issue work clothes.</li> </ul>
Environmental Exposure Controls	<ul> <li>controls. For some substances biological monitoring may also be appropriate.</li> <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.
pH	: Not applicable.
Initial Boiling Point and	: > 280 °C / 536 °F estimated value(s)
Boiling Range Pour point	: Typical -30 °C / -22 °F
Flash point	: Typical -30°C / -22°F : Typical 222 °C / 432 °F (PMCC / ASTM D93)
Upper / lower Flammability	: Typical 222 C/432 P (PMCC/ASTM D93) : Typical 1 - 10 %(V) (based on mineral oil)
or Explosion limits	
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Density	: Typical 880 kg/m3 at 15 °C / 59 °F
Water solubility	: Negligible.
Solubility in other solvents	: Data not available
n-octanol/water partition	: > 6 (based on information on similar products)
coefficient (log Pow) Dynamic viscosity	: Data not available

Kinematic viscosity : Vapour density (air=1) : Evaporation rate (nBuAc=1) :	Typical 68 mm2/s at 40 °C / 104 °F > 1 (estimated value(s)) Data not available
10. STABILITY AND REACTIVITY Stability : Conditions to Avoid : Materials to Avoid : Hazardous : Decomposition Products	Stable. Extremes of temperature and direct sunlight. Strong oxidising agents. Hazardous decomposition products are not expected to form during normal storage.
11. TOXICOLOGICAL INFORMAT	TION
Basis for Assessment	Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity : Acute Dermal Toxicity : Acute Inhalation Toxicity :	Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit 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- 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 : 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 with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.
12. ECOLOGICAL INFORMATION	
Ecotoxicological data have not	been determined specifically for this product. Information given is omponents 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
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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 CONSIDERATIO	NS	
13. DISPOSAL CONSIDERATIO Material Disposal	)NS :	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.
	<b>)NS</b> :	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

#### 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 :	Not classified as dangerous under EC criteria.
EC Symbols :	No Hazard Symbol required
EC Risk Phrases :	Not classified.
EC Safety Phrases :	Not classified.
Chemical Inventory Status	
EINECS :	All components
	listed or polymer

TSCA	exempt. : 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)

Not classified.

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