Version 2.2	Revision Date 17.08.2016 Print Date 24.08					
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
Product name	: Shell Spirax S3 ATF MD3					
Product code	: 001D8298					
Manufacturer or supplier's o	letails					
Supplier	: Shell Markets (Middle East) Limited 8th floor, Dubai Convention Tower Za'abeel 307 Dubai Utd.Arab Emir.	ł				
Telephone Telefax	: (+971) 800035704494 : (+971) 43321591					
Telefax	. (1311) 4002 1001					
Emergency telephone number	: +60383168800 (OUTSIDE UAE); 8 UAE)	300035704494 (WITHIN				
Email Contact for Safety Data Sheet	: lubricantSDS@shell.com					
Recommended use of the cl	nemical and restrictions on use					
Recommended use	: Transmission oil.					

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

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

Version 2.2

Revision Date 17.08.2016

Print Date 24.08.2020

Other hazards which do not result in classification

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.

SECTION 3. 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, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration [%]
Alkyl methacrylates copolymer	Not Assigned	Eye Irrit.2A; H319	1 - 3
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	Asp. Tox.1; H304	0 - 90

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used under conditions.	er normal
If inhaled	No treatment necessary under normal conditions of If symptoms persist, obtain medical advice.	use.
In case of skin contact	Remove contaminated clothing. Flush exposed area 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	n.
If swallowed	In general no treatment is necessary unless large quare swallowed, however, get medical advice.	uantities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may include of black pustules and spots on the skin of exposed a Ingestion may result in nausea, vomiting and/or diar	areas.

Version 2.2		Revision Date 17.08.2016	Print Date 24.08.2020
Protection of first-aiders	:	When administering first aid, ensur appropriate personal protective eq incident, injury and surroundings.	
Notes to physician	:	Treat symptomatically.	
SECTION 5. FIRE-FIGHTING MEA	ASL	IRES	
Suitable extinguishing media	:	Foam, water spray or fog. Dry cher dioxide, sand or earth may be used	
Unsuitable extinguishing media	:	Do not use water in a jet.	
Specific hazards during firefighting	:	Hazardous combustion products m A complex mixture of airborne solid gases (smoke). Carbon monoxide may be evolved occurs. Unidentified organic and inorganic	d and liquid particulates and if incomplete combustion
Specific extinguishing methods	:	Use extinguishing measures that a circumstances and the surrounding	
Special protective equipment for firefighters	:	Proper protective equipment includ gloves are to be worn; chemical re large contact with spilled product is Breathing Apparatus must be worn a confined space. Select fire fighte relevant Standards (e.g. Europe: E	sistant suit is indicated if s expected. Self-Contained when approaching a fire in r's clothing approved to
Hazchem Code	:	NONE	
SECTION 6. ACCIDENTAL RELE	AS	E MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Avoid contact with skin and eyes.	
Environmental precautions	:	Use appropriate containment to av contamination. Prevent from sprea ditches or rivers by using sand, ea barriers.	ding or entering drains,
		Local authorities should be advised cannot be contained.	d if significant spillages
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid acciden Prevent from spreading by making or other containment material.	a barrier with sand, earth

Reclaim liquid directly or in an absorbent.

Version 2.2	Revision Date 17.08.2016 Print Date 24.08.2020
	Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	 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.
SECTION 7. HANDLING AND S	STORAGE
General Precautions	 Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. 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.
Advice on safe 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.
Avoidance of contact	: Strong oxidising agents.
Product Transfer	: This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.
Storage	
Other data	 Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
	Store at ambient temperature.
Packaging material	 Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
Container Advice	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
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Vers	ersion 2.2 Revision Date 17.08.2016 Print Date 24		te 24.08.2020		
				concentration	
Oi	il mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	AU OEL
Oi	il mist, mineral	Not Assigned	TWA	5 mg/m3	US. ACGIH
			((inhalable fraction))		Threshold Limit Values
Oi	il mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	Australia. Workplace Exposure Standards for Airborne Contaminant s.
Oi	il mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
		Not Assigned	TWA (Inhalable fraction)	5 mg/m3	ACGIH

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. Where material is heated, sprayed or mist formed, there is
	greater potential for airborne concentrations to be generated. General Information: Define procedures for safe handling and maintenance of
	controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020		
	equipment used to control exposur equipment, local exhaust ventilatio			
	Drain down system prior to equipm maintenance.	ent break-in or		
	Retain drain downs in sealed storage pending disposal or subsequent recycle.			
	Always observe good personal hyg washing hands after handling the r drinking, and/or smoking. Routinel protective equipment to remove co contaminated clothing and footwea Practice good housekeeping.	naterial and before eating, y wash work clothing and ntaminants. Discard		

Personal protective equipment

Protective measures

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

Respiratory protection	lo respiratory protection is ordinarily required under no onditions of use. In accordance with good industrial hygiene practices, recautions should be taken to avoid breathing of mater engineering controls do not maintain airborne oncentrations to a level which is adequate to protect w ealth, select respiratory protection equipment suitable pecific conditions of use and meeting relevant legislation check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an ppropriate combination of mask and filter. Select a filter suitable for the combination of organic gas nd vapours [Type A/Type P boiling point >65°C (149°)	rial. orker for the on. Ses
Hand protection		
Remarks	Where hand contact with the product may occur the use loves approved to relevant standards (e.g. Europe: EN JS: F739) made from the following materials may provi- uitable chemical protection. PVC, neoprene or nitrile ru- loves Suitability and durability of a glove is dependent sage, e.g. frequency and duration of contact, chemical esistance of glove material, dexterity. Always seek adv rom glove suppliers. Contaminated gloves should be eplaced. Personal hygiene is a key element of effective are. Gloves must only be worn on clean hands. After u loves, hands should be washed and dried thoroughly.	I374, de ibber on ice e hand sing
	for continuous contact we recommend gloves with reakthrough time of more than 240 minutes with prefer or > 480 minutes where suitable gloves can be identified hort-term/splash protection we recommend the same, ecognize that suitable gloves offering this level of prote hay not be available and in this case a lower breakthro me maybe acceptable so long as appropriate maintena	ed. For but ection ugh

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020
	and replacement regimes are follow a good predictor of glove resistance dependent on the exact compositio Glove thickness should be typically depending on the glove make and	e to a chemical as it is on of the glove material. greater than 0.35 mm
Eye protection	: If material is handled such that it con protective eyewear is recommende	
Skin and body protection	: Skin protection is not ordinarily req work clothes. It is good practice to wear chemica	
Thermal hazards	: Not applicable	

Environmental exposure controls

General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing
	vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	red
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-48 °C / -54 °FMethod: ISO 3016
Melting / freezing point		Data not available
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	180 °C / 356 °F
		Method: ISO 2592
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit	:	Typical 10 %(V)

Safety Data Sheet

Shell Spirax S3 ATF MD3

Lower explosion limit Vapour pressure	: Typical 1 %(V)	
Vapour pressure		
	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.864 (15 °C / 59 °F)	
Density	: 864 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
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	: 33.8 mm2/s (40.0 °C / 104.0 °F) Method: ISO 3104	
	7.3 mm2/s (100 °C / 212 °F) Method: ISO 3104	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to be	a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	: Stable.
Possibility of hazardous reactions	: Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.

Safety Data Sheet

Shell Spirax S3 ATF MD3

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020
Incompatible materials	: Strong oxidising agents.	
Hazardous decomposition products	: Hazardous decomposition produc during normal storage.	ts are not expected to form

SECTION 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).
Exposure routes	: Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute 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.

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Version 2.2 Revision Date 17.08.2016 Print Date 24.08.2020

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.

2

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.

Remarks: Slightly irritating to respiratory system.

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020
SECTION 12. ECOLOGICAL INFO	ORMATION	
Basis for assessment	and the ecotoxicology of simila Unless indicated otherwise, th representative of the product a individual component(s).(LL/E	a knowledge of the components ar products. The data presented is as a whole, rather than for
Ecotoxicity		
Product:		
Toxicity to fish (Acute toxicity)	: Remarks: Expected to be prac LL/EL/IL50 > 100 mg/l	ctically non toxic:
Toxicity to crustacean (Acute toxicity)	: Remarks: Expected to be prac LL/EL/IL50 > 100 mg/l	ctically non toxic:
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be prac LL/EL/IL50 > 100 mg/l	ctically non toxic:
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available	
Toxicity to crustacean	: Remarks: Data not available	
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Expected to be not constituents are expected to be contains components that may	e inherently biodegradable, but
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains componer bioaccumulate.	nts with the potential to
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on	information on similar products)
Mobility in soil		
Product:		
Mobility	: Remarks: Liquid under most e enters soil, it will adsorb to soi mobile.	
44 / 44		800001001082

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020
	Remarks: Floats on water.	
Other adverse effects		
no data available Product:		
Additional ecological information	 Product is a mixture of non-volatile conserved to be released to air in any solution photochemical ozone creation potential. Poorly soluble mixture., May cause phorganisms. Mineral oil is not expected to cause ar aquatic organisms at concentrations lease 	ignificant quantities., potential, al or global warming hysical fouling of aquatic hy chronic effects to

SECTION 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.

SECTION 14. TRANSPORT INFORMATION

National Regulations

ADG

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Not applicable

Version 2.2	Revision Date 17.08.2016	Print Date 24.08.2020
Ship type	: Not applicable	
Product name	: Not applicable	
Special precautions	: Not applicable	
Special precautions for user		
Remarks	: Special Precautions: Refer to Cha for special precautions which a us needs to comply with in connection	er needs to be aware of or
Additional Information	: MARPOL Annex 1 rules apply for	bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform	:	No poison schedule number allocated
Scheduling of Medicines and		
Poisons (SUSMP)		

Product classified as per Work Health Safety Regulations – Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2011 based on Globally Harmonized Classification version 3.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011).

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code).

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.
AICS	:	All components listed.

SECTION 16. OTHER INFORMATION

Full text of H-Statements				
H304 H319 Full text of other abbr	May be fatal if swallowed and enters airways. Causes serious eye irritation. abbreviations			
Asp. Tox. Eye Irrit.	Aspiration hazard Eye irritation			
Abbreviations and Acro	nyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.			
Date of preparation or r	eview : 17.08.2016			
Further information				
Other information	: A vertical bar () in the left margin indicates an amendment			

Safety Data Sheet

Shell Spirax S3 ATF MD3

Version 2.2

Revision Date 17.08.2016 from the previous version.

Print Date 24.08.2020

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.