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CTION 1. IDENTIFICATION		
Product name	: Shell Spirax S4 TXM	
Product code	: 001D8246	
Manufacturer or supplier	s details	
Manufacturer/Supplier	 Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA 	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone nu	mber	
Spill Information	: 877-504-9351	
Health Information	: 877-242-7400	

Recommended use : Transmission oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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.

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.

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

* 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	Synonyms	CAS-No.	Concentration (%)
Zinc dialkyldithiophosphate		4259-15-8	1 - 2.4
Borated ester	2-hydroxy-4- tetradecyl-1,3,2- dioxaborolane	84819-41-0	0.1 - 0.9
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

General advice	:	Not expected to be a health hazard when used under normal conditions.
If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter 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.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	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.

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Protection of first-aiders	: When administering first aid, ensure appropriate personal protective equ incident, injury and surroundings.	
Immediate medical attention, special treatment	: Treat symptomatically.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	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.

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Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Da For guidance on disposal of spi this Safety Data Sheet.	ta Sheet.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	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.
Precautions for 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 mate- rials 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 tem- peratures because of possible risk of distortion.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ĺ	Components	CAS-No.	Value type	Control parame-	Basis	
			(Form of	ters / Permissible		
			exposure)	concentration		
	Oil mist, mineral	Not Assigned	TWA ((inhal-	5 mg/m3	US. ACGIH	
			able frac-		Threshold	
			tion))		Limit Values	
			(Mist)	5 mg/m3	OSHA_TRA	

Components with workplace control parameters

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				NS
Ī		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able 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 equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

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Personal protective equipr	nent	
Respiratory protection	: No respiratory protection conditions of use. In accordance with good tions should be taken to If engineering controls d tions to a level which is a select respiratory protec cific conditions of use ar Check with respiratory p Where air-filtering respir priate combination of ma Select a filter suitable fo	h is ordinarily required under normal d industrial hygiene practices, precau avoid breathing of material. lo not maintain airborne concentra- adequate to protect worker health, tion equipment suitable for the spe- nd meeting relevant legislation. protective equipment suppliers. rators are suitable, select an appro- ask and filter. r the combination of organic gases ype P boiling point >65°C (149°F)].
Hand protection Remarks	gloves approved to releve US: F739) made from the suitable chemical protect gloves Suitability and du usage, e.g. frequency and sistance of glove material glove suppliers. Contame Personal hygiene is a ket Gloves must only be wo gloves, hands should be cation of a non-perfume For continuous contact we through time of more that 480 minutes where suitate short-term/splash protect recognize that suitable of may not be available and time maybe acceptable and replacement regime a good predictor of glove dependent on the exact	h the product may occur the use of vant standards (e.g. Europe: EN374, he following materials may provide stion. PVC, neoprene or nitrile rubbes irability of a glove is dependent on and duration of contact, chemical re- al, dexterity. Always seek advice from inated gloves should be replaced. ey element of effective hand care. rn on clean hands. After using e washed and dried thoroughly. Appl d moisturizer is recommended. we recommend gloves with break- an 240 minutes with preference for > able gloves can be identified. For ction we recommend the same, but gloves offering this level of protection d in this case a lower breakthrough so long as appropriate maintenance es are followed. Glove thickness is ne e resistance to a chemical as it is composition of the glove material. be typically greater than 0.35 mm make and model.
Eye protection	: If material is handled supprotective eyewear is re	ch that it could be splashed into eye commended.
Skin and body protection	work clothes.	dinarily required beyond standard ar chemical resistant gloves.
Protective measures		ipment (PPE) should meet recom- rds. Check with PPE suppliers.
Environmental exposure c	ontrols	
General advice	: Take appropriate measu vant environmental prote	ures to fulfill the requirements of rele ection legislation. Avoid contamination of the provided of the provided

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charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lin	water should be treated in a ater treatment plant before nits for volatile substances
	necessary, prevent undissolved charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lin must be observed for the discha

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

: Liquid at room temperature.
: amber
: Slight hydrocarbon
: Data not available
: Not applicable
: -42 °C / -44 °FMethod: ISO 3016
: > 280 °C / 536 °Festimated value(s)
: 220 °C / 428 °F Method: ISO 2592
: Data not available
: Data not available
: Typical 10 %(V)
: Typical 1 %(V)
: < 0.5 Pa (20 °C / 68 °F) estimated value(s)
: > 1estimated value(s)
: 0.882 (15 °C / 59 °F)
: 882 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185
: negligible
: Data not available
: Pow: > 6(based on information on similar products)

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Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 60 mm2/s (40.0 °C / 104.0 °F) Method: ISO 3104	
	9.4 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 reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products		Hazardous decomposition products are not expected to form during normal storage.

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).
	whole, rather than for individual component(s).

Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

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Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low t	oxicity:
Acute inhalation toxicity	: Remarks: Not considered to be a normal conditions of use.	n inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low t	oxicity:

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.

Components:

Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

Borated ester:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

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).

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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	human carcinogen by IARC.	
ACGIH	No component of this product present at equal to 0.1% is identified as a carcinogoing gen by ACGIH.	
OSHA	No component of this product present at equal to 0.1% is identified as a carcinogoing gen by OSHA.	5
NTP	No component of this product present at equal to 0.1% is identified as a known or by NTP.	5
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.

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.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	Ecotoxicological data have not been determined specifically for this product.
	Information given is based on a knowledge of the components

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Version 1.5 Revision Date: 09/05/2016 Print Date: 09/06/2016 and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract). Ecotoxicity Product: Toxicity to fish (Acute toxici-Remarks: Expected to be practically non toxic: ty) LL/EL/IL50 > 100 mg/l Toxicity to daphnia and other aquatic invertebrates (Acute Remarks: Expected to be practically non toxic: toxicity) LL/EL/IL50 > 100 mg/l Toxicity to algae (Acute tox-Remarks: Expected to be practically non toxic: icity) LL/EL/IL50 > 100 mg/l Toxicity to fish (Chronic tox-• Remarks: Data not available icity) Toxicity to daphnia and other : Remarks: Data not available aquatic invertebrates (Chronic toxicity) Toxicity to bacteria (Acute : Remarks: Data not available toxicity) Persistence and degradability Product: Biodegradability : Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment. **Bioaccumulative potential Product:** : Remarks: Contains components with the potential to bioac-Bioaccumulation cumulate. Mobility in soil Product: Mobility : Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water.

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Other adverse effects no data available		
Product:		
Additional ecological infor- mation	 Product is a mixture of non-vola expected to be released to air ir Not expected to have ozone dep cal ozone creation potential or g 	n any significant quantities. pletion potential, photochemi-
	Poorly soluble mixture. May cause physical fouling of a	quatic organisms.
	Mineral oil is not expected to ca aquatic organisms at concentration	

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 na- tional 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

US Department of Transportation Classification (49 CFR Parts 171-180)

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

Ship type	: Not applicable	
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Product name Special precautions	Not applicableNot applicable	
Special precautions for user		
Remarks	: Special Precautions: Refer to C for special precautions which a needs to comply with in connect	user needs to be aware of or
Additional Information	: MARPOL Annex 1 rules apply f	or bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	:	No OSHA Hazards
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EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re- productive harm.
•	ct are reported in the following inventories: All components listed or polymer exempt.
TSCA	All components listed.
DSL	All components listed.

SECTION 16. OTHER INFORMATION

Further information

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NFPA Rating (Health, Fir tivity)	e, Reac- 0, 1, 0	
A vertical bar () in the lef Abbreviations and Acrony	t margin indicates an amendment from t ms : The standard abbreviations an ment can be looked up in refer dictionaries) and/or websites.	d acronyms used in this docu
	ACGIH = American Conference	e of Governmental Industrial
	Hygienists	
	ADR = European Agreement c	
	Carriage of Dangerous Goods	
	AICS = Australian Inventory of	
	ASTM = American Society for	
	BEL = Biological exposure limit BTEX = Benzene, Toluene, Et	
	CAS = Chemical Abstracts Ser	
	CEFIC = European Chemical I	
	CLP = Classification Packaging	
	COC = Cleveland Open-Cup	,
	DIN = Deutsches Institut fur No	ormung
	DMEL = Derived Minimal Effect	t Level
	DNEL = Derived No Effect Leve	
	DSL = Canada Domestic Subs	tance List
	EC = European Commission	- 66
	EC50 = Effective Concentration	
	ECETOC = European Center c gy Of Chemicals	on Ecoloxicology and Toxicolo
	ECHA = European Chemicals	Δαερογ
	EINECS = The European Inver	
	Chemical Substances	
	EL50 = Effective Loading fifty	
	ENCS = Japanese Existing and	d New Chemical Substances
	Inventory	
	EWC = European Waste Code	
	GHS = Globally Harmonised S	ystem of Classification and
	Labelling of Chemicals	
	IARC = International Agency fo	
	IATA = International Air Transp IC50 = Inhibitory Concentratior	
	IL50 = Inhibitory Level fifty	, inty
	IMDG = International Maritime	Dangerous Goods
	INV = Chinese Chemicals Inve	
	IP346 = Institute of Petroleum	test method N° 346 for the
	determination of polycyclic are	
	KECI = Korea Existing Chemic	
	LC50 = Lethal Concentration fi	
	LD50 = Lethal Dose fifty per ce	
	LL/EL/IL = Lethal Loading/Effect	clive Loading/Inhibitory loadin
	LL50 = Lethal Loading fifty MARPOL = International Conve	ention for the Prevention of
	Pollution From Ships	
		ffect Concentration / No Ob-
	NOEC/NOEL = No Observed E served Effect Level	Effect Concentration / No Ob-

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	PBT = Persistent, Bioaccumulati PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Con REACH = Registration Evaluation Chemicals RID = Regulations Relating to In gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very	Chemicals and Chemical ncentration on And Authorisation Of aternational Carriage of Dan- it int Control Act
Revision Date	: 09/05/2016	

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.