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SECTION	SECTION 1. IDENTIFICATION					
Prod	uct name	: Shell Spira	: Shell Spirax S2 ALS 80W-90			
Prod	uct code	: 001D8279	001D8279			
Manı	ufacturer or supplier's	details				
Manufacturer/Supplier		400 - 4th Av	: Shell Canada Products 400 - 4th Avenue S.W Calgary AB T2P 0J4 Canada			
Telephone Telefax		: (+1) 80066 ² : (+1) 403384				
Emei ber	gency telephone num-	UTEC (226-	(24 hr): (+1) 613-996-6666; Toll Free: 1-888-CAN- 8832) C (24 hr): 1 (703) 527-3887 or 1 (800) 424-9300			
Reco	ommended use of the o	chemical and res	trictions on use			

Recommended use	: Transmission oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Chronic aquatic toxicity	: Category 3	
Chronic aquatic toxicity		

GHS label elements

Hazard pictograms	: No symbol
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: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P273 Avoid release to the environment. Response: No precautionary phrases.
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Storage: No precautionary phrases. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

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

Substance name	: Shell Spirax S2 ALS 80W-90
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

	CAS-No.	Concentration (% w/w)
Alkenyl amine	112-90-3	0.25 - 0.90
Interchangeable low viscosity base oil (<20,5 cSt	Not Assigned	0 - 90
@40°C) *		

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. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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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.		
Protection of first-aiders		: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.		
Notes to physician		: Treat sympton	matically.	

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
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		Soak up residu	nment material. directly or in an absorbent. e with an absorbent such as clay, sand or other al and dispose of properly.
Additional advice		see Chapter 8 d	n selection of personal protective equipment of this Safety Data Sheet. n disposal of spilled material see Chapter 13 of a Sheet.

SECTION 7. HANDLING AND 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 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.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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

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		equipment used equipment, loca Drain down syst nance. Retain drain dow subsequent rec Always observe washing hands drinking, and/or protective equip	good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and ment to remove contaminants. Discard con- ng and footwear that cannot be cleaned.
Pers	onal protective equip	ment	
Resp	iratory protection	conditions of us In accordance w tions should be If engineering c tions to a level w select respirator cific conditions of Check with resp Where air-filterin priate combinations of Select a filter su	protection is ordinarily required under normal e. with good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols do not maintain airborne concentra- which is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation. biratory protective equipment suppliers. ng respirators are suitable, select an appro- tion of mask and filter. uitable for the combination of organic gases ype A/Type P boiling point >65°C (149°F)].
	protection	gloves approved US: F739) made suitable chemic gloves Suitabilit usage, e.g. freq sistance of glov glove suppliers. Personal hygier Gloves must on gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be avai time maybe acc and replacemer a good predicto	htact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide al protection. PVC, neoprene or nitrile rubber y and durability of a glove is dependent on uency and duration of contact, chemical re- e material, dexterity. Always seek advice from Contaminated gloves should be replaced. he is a key element of effective hand care. ly be worn on clean hands. After using hould be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > ere suitable gloves can be identified. For sh protection we recommend the same, but suitable gloves offering this level of protection ilable and in this case a lower breakthrough eptable so long as appropriate maintenance at regimes are followed. Glove thickness is not r of glove resistance to a chemical as it is ne exact composition of the glove material.

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				hould be typically greater than 0.35 mm glove make and model.
Eye p	protection			lled such that it could be splashed into eyes, ar is recommended.
Skin a	and body protection	۱	work clothes.	not ordinarily required beyond standard to wear chemical resistant gloves.
Therr	nal hazards	: 1	Not applicable	
Prote	ctive measures			ve equipment (PPE) should meet recom- standards. Check with PPE suppliers.

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.
	vapou.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid at room temperature.
Colour	: amber
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -27 °C / -17 °F Method: ISO 3016
Initial boiling point and boiling range	: > 280 °C / 536 °F estimated value(s)
Flash point	: 210 °C / 410 °F
	Method: ISO 2592

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E	Evapora	ation rate	:	Data not availabl	e
F	lamma	ability (solid, gas)	:	Data not availabl	e
L	Jpper e	explosion limit	:	Typical 10 %(V)	
L	ower e	explosion limit	:	Typical 1 %(V)	
V	/apour	pressure	:	< 0.5 Pa (20 °C / estimated value(
F	Relative	e vapour density	:	> 1 estimated value(s)
F	Relative	e density	:	0.909 (15 °C / 59	°F)
C	Density		:	909 kg/m3 (15.0	°C / 59.0 °F)Method: ISO 12185
S	Solubilit Wate	ty(ies) r solubility	:	negligible	
	Solut	oility in other solvents	:	Data not availabl	e
	Partitior	n coefficient: n- /water	:	Pow: > 6 (based on inform	ation on similar products)
А	Auto-igr	nition temperature	:	> 320 °C / 608 °F	-
V	/iscosit Visco	y osity, dynamic	:	Data not availabl	e
	Visco	osity, kinematic	:	146 mm2/s (40.0 Method: ISO 310	
				14.7 mm2/s (100 Method: ISO 310	
E	Explosiv	ve properties	:	Not classified	
C	Dxidizin	g properties	:	Data not availabl	e
C	Conduc	tivity	:	This material is n	ot expected to be a static accumulator.
C	Decomp	position temperature	:	Data not availabl	e

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.
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Post	sibility of hazardous reac	- : Read	ts with strong ox	idising agents.
Con	ditions to avoid	: Extre	mes of temperat	ture and direct sunlight.
Inco	mpatible materials	: Stror	g oxidising agen	its.
	ardous decomposition ucts		rdous decompos g normal storage	sition products are not expected to form e.

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 refers then for individual component(a)
		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:

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 unde normal conditions of use.	r
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.

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Germ cell mutagenicity

Product:

Genotoxicity in vivo

: 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).

Reproductive toxicity

Product:

Effects on fertility

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.

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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 and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).Test data for additive packages has also been used in the classification of this product.	
Ecotoxicity			
Product:			
Toxicity to fish (Acute toxici- ty)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available	
Toxicity to crustacean	:	Remarks: Data not available	
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available	
Components:			
Alkenyl amine:			
M-Factor (Acute aquatic tox- icity)	:	10	
M-Factor (Chronic aquatic toxicity)	:	10	
Persistence and degradabilit	y		
Product:			
Biodegradability	:	Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegrada- ble, but contains components that may persist in the environ- ment.	
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Bioa	ccumulative potential	I		
Prod	-			
	ccumulation	: Remarks: C cumulate.	Remarks: Contains components with the potential to bioac- cumulate.	
	tion coefficient: n- nol/water	: Pow: > 6 Remarks: (b	Pow: > 6 Remarks: (based on information on similar products)	
Mob	ility in soil			
Prod	luct:			
Mobi			quid under most environmental conditions. bil, it will adsorb to soil particles and will not be	
		Remarks: Fl	oats on water.	
Othe	er adverse effects			
Prod	luct:			
	tional ecological infor-	expected to Not expecte	mixture of non-volatile components, which are not be released to air in any significant quantities. d to have ozone depletion potential, photochemi- eation potential or global warming potential.	
		Poorly solub May cause p	le mixture. physical fouling of aquatic organisms.	
			not expected to cause any chronic effects to nisms at concentrations less than 1 mg/l.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 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
	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.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably

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		the collector or Disposal shoul	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.	
Local Rema	legislation arks	•	d be in accordance with applicable regional, ocal laws and regulations.	
SECTION	14. TRANSPORT IN	FORMATION		

National Regulations

TDG 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 Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable
Special precautions for user	
Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
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

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

The components o	f this product are reported in the following inventories:	
EINECS	: All components listed or polymer exempt.	
TSCA	: All components listed.	
DSL	: All components listed.	
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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to	: The quoted data are from, but not limited to, one or more
compile the Safety Data	sources of information (e.g. toxicological data from Shell
Sheet	Health Services, material suppliers' data, CONCAWE, EU
	IUCLID date base, EC 1272 regulation, etc).

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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