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SECTIO	N 1. IDENTIFICATION			
Pro	duct name	:	Spirax S6 GME 4	10
Pro	duct code	:	001F8273	
Mar	Manufacturer or supplier's		ails	
Manufacturer/Supplier		: Shell Canada Products 4000-500 Centre Street SE Calgary AB T2G 1A6 Canada		Street SE
Tele Tele	ephone efax	:	(+1) 8006611600 (+1) 4033848345	
Eme ber	ergency telephone num-	:	CHEMTREC (24 (US)	hr): 1 (703) 527-3887 or 1 (800) 424-9300
Rec	ommended use of the c	her	nical and restricti	ons on use
Rec	ommended use	:	Transmission oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Long-term (chronic) aquatic hazard	:	Category 3
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:

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No precautionary phrases. **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 / Mixture	:	Mixture
Substance name	:	Spirax S6 GME 40
Chemical nature	:	Synthetic base oil and additives.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Polyolefin	Not Assigned	75 - 95
Amine phosphate	80939-62-4	1 - 5
N-phenyl-1-naphthylamine	90-30-2	0.1 - 0.24

SECTION 4. FIRST-AID MEASURES

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.
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

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		appropriate personal protective e incident, injury and surroundings.		
	Notes to physician	: Treat symptomatically.		
SEC	TION 5. FIRE-FIGHTING	ASURES		
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.	Do not use water in a jet.	
Specific hazards during fire- fighting		 Hazardous combustion products A complex mixture of airborne so gases (smoke). Carbon monoxide may be evolve occurs. Unidentified organic and inorganic 	lid and liquid particulates and dif incomplete combustion	
	Specific extinguishing met ods	: Use extinguishing measures that cumstances and the surrounding		
	Special protective equipm for firefighters	: Proper protective equipment inclu- gloves are to be worn; chemical r large contact with spilled product Breathing Apparatus must be wo a confined space. Select fire fight relevant Standards (e.g. Europe	esistant suit is indicated if is expected. Self-Contained m when approaching a fire in er's clothing approved to	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : 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. Additional advice : For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of 800010024475	Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
containment and cleaning up 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. Additional advice : For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of	Environmental precautions	:	
see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of		:	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
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		this Safety Da	ata Sheet.		
SECTIO	N 7. HANDLING AND S	TORAGE			
General Precautions		vapours, mist Use the inforr sessment of l	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 as- sessment of local circumstances to help determine appropri- ate controls for safe handling, storage and disposal of this material.		
Advice on safe handling		Avoid inhaling When handlir worn and pro Properly disp	led or repeated contact with skin. g vapour and/or mists. Ig product in drums, safety footwear should be per handling equipment should be used. Dose of any contaminated rags or cleaning mate- to prevent fires.		
Avoidance of contact		: Strong oxidisi	Strong oxidising agents.		
Product Transfer			ding and bonding procedures should be used transfer operations to avoid static accumulation.		
Sto	rage				
Other data		place.	er tightly closed and in a cool, well-ventilated labeled and closable containers.		
		Store at ambi	ent temperature.		
stee			erial: For containers or container linings, use mild density polyethylene. aterial: PVC.		
Container Advice			containers should not be exposed to high tem- ause of possible risk of distortion.		

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Contains no components with occupational exposure limit values.

Biological occupational exposure limits

No biological limit allocated.

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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.

Personal protective equipment

Respiratory protection

: No respiratory protection is ordinarily required under normal conditions of use.

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		tions should be If engineering of tions to a level select respirato cific conditions Check with res Where air-filter priate combina Select a filter s	with good industrial hygiene practices, precau- e taken to avoid breathing of material. controls do not maintain airborne concentra- which is adequate to protect worker health, ory protection equipment suitable for the spe- of use and meeting relevant legislation. piratory protective equipment suppliers. ing respirators are suitable, select an appro- tion of mask and filter. uitable for the combination of organic gases nd particles [Type A/Type P boiling point].
	d protection emarks	gloves approve US: F739) mad suitable chemin gloves Suitabil usage, e.g. free sistance of glov glove suppliers Personal hygie Gloves must of gloves, hands cation of a non For continuous through time of 480 minutes w short-term/spla recognize that may not be ava time maybe ac and replaceme a good predicted dependent on Glove thicknes	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ity and durability of a glove is dependent on quency and duration of contact, chemical re- ve material, dexterity. Always seek advice from s. Contaminated gloves should be replaced. one is a key element of effective hand care. Inly be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- f more than 240 minutes with preference for > here suitable gloves can be identified. For ash protection we recommend the same but suitable gloves offering this level of protection ailable and in this case a lower breakthrough ceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is the exact composition of the glove material. s should be typically greater than 0.35 mm the glove make and model.
Eye	protection		andled such that it could be splashed into eyes, wear is recommended.
Skin	and body protection	work clothes.	is not ordinarily required beyond standard ice to wear chemical resistant gloves.
The	mal hazards	: Not applicable	
Prote	ective measures		ctive equipment (PPE) should meet recom- al standards. Check with PPE suppliers.

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Environmental exposure controls

vapou.	General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 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.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid	
Colour	: clear	
Odour	: Slight hydrocarbon	
Odour Threshold	: Data not available	
рН	: Not applicable	
pour point	: -42 °C / -44 °F Method: ASTM D97	
Initial boiling point and boiling range	: > 280 °C / 536 °F estimated value(s)	
Flash point	: 238 °C / 460 °F	
	Method: ASTM D92 (COC)	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Data not available	
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: > 1 estimated value(s)	
Relative density	: 0.850 (15 °C / 59 °F)	

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Dens	sity	:	850 kg/m3 (15 °C	C / 59 °F)Method: ASTM D4052	
	bility(ies) ater solubility	:	: negligible		
Sc	olubility in other solvents	:	Data not availabl	e	
	Partition coefficient: n- octanol/water		: log Pow: > 6 (based on information on similar products)		
Auto	Auto-ignition temperature		> 320 °C / 608 °F		
Deco	Decomposition temperature		Data not availabl	e	
	Viscosity Viscosity, dynamic		Data not availabl	e	
Vi	scosity, kinematic		14.2 - 16.2 mm2 Method: ASTM D	/s (100 °C / 212 °F) 0445	
Explo	osive properties	:	Not classified		
Oxid	izing properties	:	: Data not available		
Conductivity		:	This material is r	ot expected to be a static accumulator.	

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	: No decomposition if stored and applied as directed.

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

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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: Low toxicity: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye. Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

Components:

N-phenyl-1-naphthylamine:

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

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

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Geno	toxicity in vivo	: Remarks: Non Based on availa	mutagenic able data, the classification criteria are not met.
Carci	nogenicity		
	<u>uct:</u> irks: Not a carcinogen. d on available data, the		are not met.
IARC	:		this product present at levels greater than or lentified as probable, possible or confirmed by IARC.
OSH	A		his product present at levels greater than or n OSHA's list of regulated carcinogens.
NTP			this product present at levels greater than or lentified as a known or anticipated carcinogen
Repro	oductive toxicity		
<u>Produ</u> Effect	<u>uct:</u> s on fertility	Does not impair	developmental toxicant. r fertility. able data, the classification criteria are not met.
sтот	- single exposure		
<u>Produ</u> Rema		le data, the classificati	on criteria are not met.

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

Not 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.

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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 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).		
Ecotoxicity				
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful		
Toxicity to crustacean (Acute toxicity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful		
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful		
Toxicity to fish (Chronic tox- icity)	:	Remarks: NOEC/NOEL > 10 - <=100 mg/l		
Toxicity to crustacean	:	Remarks: NOEC/NOEL > 10 - <=100 mg/l		
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	:	Remarks: NOEC/NOEL > 10 - <=100 mg/l		
Components: N-phenyl-1-naphthylamine: M-Factor (Acute aquatic tox- icity)	:	1		
M-Factor (Chronic aquatic toxicity)	:	1		
Persistence and degradability				
Product:				
Biodegradability	:	Remarks: Not readily biodegradable.		

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			tuents are inherently biodegradable, but contains that may persist in the environment.	
Bioa	ccumulative potential			
Prod	uct:			
Bioad	ccumulation	: Remarks: Concerning	ontains components with the potential to bioac-	
	tion coefficient: n- nol/water		 log Pow: > 6 Remarks: (based on information on similar products) 	
Mobi	ility in soil			
Prod	uct:			
Mobi	lity		quid under most environmental conditions. soil and has low mobility	
		Remarks: Fl	oats on water.	
Othe	r adverse effects			
<u>Prod</u>	uct:			
Addit matic	ional ecological infor- on	ozone creati Product is a	ve ozone depletion potential, photochemical on potential or global warming potential. mixture of non-volatile components, which will not to air in any significant quantities under normal f use.	
		Poorly solub Causes phys	le mixture. sical fouling of aquatic organisms.	

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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		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 rks	•	d be in accordance with applicable regional, cal laws and regulations.

SECTION 14. TRANSPORT INFORMATION

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

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

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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 of this product are reported in the following inventories:

EINECS	:	All components listed or polymer exempt.

TSCA : All components listed.

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DSL		: All components	s listed.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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; 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 - Verv Persistent and Verv 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 compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell 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

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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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