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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: AeroShell Turbine Oil 500
Product code	: 001A0083

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	Synthetic lubricating oil for aircraft turbine engines., details consult the AeroShell Book on www.shell.co	
Uses advised against	This product must be used, handled, and applied in ance with the requirements of the equipment manual manuals, bulletins and other documentation. This product must not be used in applications other listed in Section 1 without first seeking the advice of plier.	acturer's than those

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: Shell UK Oil Products Limited Shell Centre London
Telephone	SE1 7NA United Kingdom : (+44) 08007318888
Telefax Contact for Safety Data Sheet	: If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

1.4 Emergency telephone number

: +44 (0) 20 7934 7778 (This telephone number is available 24 hours per day, 7 days per week)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-
egory 3	fects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)					
Hazard pictograms	Hazard pictograms : No symbol				
Signal word	:	No signal word			
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP criteria. HEALTH HAZARDS: Not classified as a health hazard under CLP criteria. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.			
Processionary statements	Precautionary statements • Prevention:				
Precautionary statements	•	P273 Avoid release to the environment.			
		Response:			
		No precautionary phrases.			
		Storage:			
		No precautionary phrases.			
		Disposal:			
		P501 Dispose of contents/ container to an approved waste disposal plant.			
Sensitising components		: Contains N-phenyl-1-naphthylamine. May produce an allergic reaction.			

2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

3.2 Mixtures

Chemical nature

: Blend of synthetic esters and additives.

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Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N-phenyl-1-naphthylamine	90-30-2 201-983-0 01-2119488704-27	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	0.25 - 0.99
Triaryl phosphate (<0.2% Ortho- TCP)	1330-78-5 215-548-8	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.25 - 0.99

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.
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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4.2 Most i	mportant symptoms ar	nd e	ffects, both acu	ite and delayed
Symp	toms	:	of black pustule	tis signs and symptoms may include formation s and spots on the skin of exposed areas. esult in nausea, vomiting and/or diarrhoea.
4.3 Indica	tion of any immediate	mec	lical attention a	nd special treatment needed
Treat	ment	:	Notes to doctor, Treat symptoma	
SECTION	15: Firefighting meas	sur	es	
5.1 Exting	uishing media			
Suitat	ble extinguishing media	:		ray or fog. Dry chemical powder, carbon diox- th may be used for small fires only.
Unsui media	itable extinguishing a	:	Do not use wate	er in a jet.
5.2 Specia	al hazards arising from	the	substance or r	nixture
Speci fightir	fic hazards during fire-	:	A complex mixt gases (smoke). Carbon monoxi occurs.	bustion products may include: ure of airborne solid and liquid particulates and de may be evolved if incomplete combustion panic and inorganic compounds.
5.3 Advice	e for firefighters			
	al protective equipment efighters	:	gloves are to be large contact wi Breathing Appa a confined space	ve equipment including chemical resistant e worn; chemical resistant suit is indicated if th spilled product is expected. Self-Contained ratus must be worn when approaching a fire ir se. Select fire fighter's clothing approved to urds (e.g. Europe: EN469).
Speci	fic extinguishing meth-	:	•	ng measures that are appropriate to local cir- d the surrounding environment.

Personal precautions	:	6.1.1 For non emergency personnel:Avoid contact with skin and eyes.6.1.2 For emergency responders:Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions : Use appropriate containment to prevent uncontrolled release.

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			reading or entering drains, ditches or rivers by n, or other appropriate barriers.
6.3 Method	ds and material for co	ontainment and clean	ing up
Metho	ds for cleaning up	Prevent from spi or other containr Reclaim liquid di Soak up residue	bilt. Avoid accidents, clean up immediately. reading by making a barrier with sand, earth nent material. rectly or in an absorbent. with an absorbent such as clay, sand or other and dispose of properly.

6.4 Reference to other sections

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 this Safety Data Sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.2

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.
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.
Product Transfer	:	Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.
Hygiene measures	:	Exposure to this product should be reduced as low as reason- ably practicable. Reference should be made to the Health and Safety Executive's publication "COSHH Essentials".
Conditions for safe storage, in	ncl	uding any incompatibilities
Further information on stor- age stability	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature.

Refer to section 15 for any additional specific legislation covering the packaging and storage of this product. The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency

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Packa	aging material		al: For containers or container linings, use mild nsity polyethylene. erial: PVC.
Conta	ainer Advice		ontainers should not be exposed to high tem- use of possible risk of distortion.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Biological occupational exposure limits

No biological limit allocated.

8.2 Exposure controls

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

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

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

Eye protection

: If material is handled such that it could be splashed into eyes, protective eyewear is recommended. Approved to EU Standard EN166.

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Hand	d protection		
R	emarks	gloves approve US: F739) mad suitable chemic gloves Suitabili usage, e.g. free sistance of glov glove suppliers Personal hygie Gloves must or gloves, hands s cation of a non For continuous through time of 480 minutes wi short-term/spla recognize that may not be ava time maybe act and replaceme a good predicto dependent on t	entact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, le from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ty and durability of a glove is dependent on quency and duration of contact, chemical re- ve material, dexterity. Always seek advice from . Contaminated gloves should be replaced. ne is a key element of effective hand care. nly be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > here suitable gloves can be identified. For sh 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 nt regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is he exact composition of the glove material. s should be typically greater than 0.35 mm he glove make and model.
Skin	and body protection	work clothes.	is not ordinarily required beyond standard ice to wear chemical resistant gloves.
Resp	Diratory protection	conditions of us In accordance 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 and vapours [T	protection is ordinarily required under normal se. with good industrial hygiene practices, precau- 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 combined particulate/organic gases ype A/Type P boiling point > 65°C (149°F)] 387 and EN143.
Ther	mal hazards	: Not applicable	

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid at room temperature.
Colour	:	Various colours
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
Melting / freezing point	:	Data not available
Pour point		<= -54 °C Method: ASTM D5950
Initial boiling point and boiling range	:	> 280 °Cestimated value(s)
Flammability		
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Lower explosion limit and upp	er e	xplosion limit / flammability limit
Upper explosion limit / Upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Flash point	:	264 °C Method: ASTM D92 (COC)
Auto-ignition temperature	:	> 320 °C
Decomposition temperature Decomposition tempera- ture	:	Data not available
рН	:	Not applicable
Viscosity Viscosity, dynamic		Data not available
viscosity, dynamic	•	
Viscosity, kinematic	:	25.4 mm2/s (40.0 °C) Method: ASTM D445

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				Method: ASTM D	
				9215 mm2/s (-40 Method: ASTM D	
	Solubil Wat	ity(ies) ter solubility	:	negligible	
	Solu	ubility in other solvents	:	Data not availabl	e
	Partitio octano	n coefficient: n- I/water	:		ation on similar products)
	Vapou	rpressure	:	< 0.5 Pa (20 °C) estimated value(s)
	Relativ	e density	:	1.005 (15 °C)	
	Density	/	:	1,005 kg/m3 (15. Method: Unspeci	
	Relativ	e vapour density	:	> 1 estimated value(S)
		e characteristics ticle size	:	Data not availabl	e
9.2		nformation			
	Explos	ive properties	:	Classification Co	de: Not classified
	Oxidizi	ng properties	:	Data not availabl	e
	Flamm	ability (liquids)	:	Not classified as	flammable but will burn.
	Evapor	ation rate	:	Data not availabl	e
	Condu	ctivity	:	This material is n	ot expected to be a static accumulator.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

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10.4 Conc	ditions to avoid		
	litions to avoid	: Extremes of te	mperature and direct sunlight.
10.5 Incor	mpatible materials		
Mater	rials to avoid	: Strong oxidisin	g agents.
	Irdous decomposition	•	
	•	and applied as directed].
SECTION	N 11: Toxicological	mormation	
11.1 Infor	mation on hazard cla	sses as defined in R	egulation (EC) No 1272/2008
Inform expos	•		ontact are the primary routes of exposure alt- e may occur following accidental ingestion.
Acute	e toxicity		

Product:	
Acute oral toxicity :	LD50 (rat): > 5,000 mg/kg Remarks: Based on available data, the classification criteria are not met. Low toxicity
Acute inhalation toxicity :	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity :	LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on available data, the classification criteria are not met. Low toxicity
Skin corrosion/irritation	
Product:	
Remarks :	Based on available data, the classification criteria are not met. 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.
Serious eye damage/eye irritat	ion
Product: Remarks :	Based on available data, the classification criteria are not met. Slightly irritating to the eye.

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	Respir	atory or skin sensitis	atio	n	
	Produc Remarl		:		d skin sensitisation: e data, the classification criteria are not met.
	<u>Compo</u>	onents:			
	N-pher Remarl	nyl-1-naphthylamine: ks	:	May cause an alle	ergic skin reaction in sensitive individuals.
	Germ o	cell mutagenicity			
	Produc	<u>st:</u>			
	Genoto	xicity in vivo	:	Remarks: Based of are not met. Non mutagenic	on available data, the classification criteria
	Germ o sessme	ell mutagenicity- As- ent	:	This product does categories 1A/1B.	not meet the criteria for classification in
	Carcin	ogenicity			
	Produc	<u>st:</u>			
	Remarl	ks	:	Based on availabl Not a carcinogen.	e data, the classification criteria are not met.
	Carcino ment	ogenicity - Assess-	:	This product does categories 1A/1B.	not meet the criteria for classification in

Material	GHS/CLP Carcinogenicity Classification
N-phenyl-1-naphthylamine	No carcinogenicity classification.
Triaryl phosphate (<0.2% Ortho-TCP)	No carcinogenicity classification.

Reproductive toxicity

Product:

Effects on fertility

Remarks: Based on available data, the classification criteria are not met., Not a developmental toxicant., Does not impair

:

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				fertility.	
	Reproductiv sessment	ve toxicity - As-	:	This product does categories 1A/1B.	not meet the criteria for classification in
	STOT - sin	gle exposure			
	Product: Remarks		:	Based on available	e data, the classification criteria are not met.
	STOT - rep	eated exposure			
	<u>Product:</u> Remarks		:	Based on available	e data, the classification criteria are not met.
	Aspiration	toxicity			
	Product: Based on a	vailable data, the c	lass	ification criteria are	e not met., Not an aspiration hazard.
11.2	Informatio	n on other hazard	s		
	Endocrine	disrupting proper	ties	5	
	Product: Assessmen	t	:	ered to have endo REACH Article 57	cture does not contain components consid- crine disrupting properties according to (f) or Commission Delegated regulation Commission Regulation (EU) 2018/605 at igher.
	Further inf	ormation			
	Product:				
	Remarks		:	lated during use. T depend on use an environment on dis	d be handled with caution and skin contact
	Remarks		:	Slightly irritating to	respiratory system.
	Remarks		:	Classifications by frameworks may e	other authorities under varying regulatory xist.
	Remarks		:		therwise, the data presented is representa- as a whole, rather than for individual com-

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Remarks		: Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual com ponent(s).	
SECTION	N 12: Ecological inf	ormation	

12.1 Toxicity

	<u>Product:</u> Toxicity to fish	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
	Toxicity to daphnia and other aquatic invertebrates	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
	Toxicity to algae/aquatic plants	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
	Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
	Toxicity to microorganisms	:	Remarks: Data not available
	Components:		
	N-phenyl-1-naphthylamine: M-Factor (Acute aquatic tox- icity)	:	1
	M-Factor (Chronic aquatic toxicity)	:	1
12.2	2 Persistence and degradabili	ity	
	<u>Product:</u> Biodegradability	:	Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains com- ponents that may persist in the environment.
12.:	Bioaccumulative potential		
	Product: Bioaccumulation	:	Remarks: Contains components with the potential to bioaccumulate.

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12.4 N	/lobilit	y in soil			
<u>P</u>	roduc	<u>t:</u>			
N	lobility		:		nder most environmental conditions., If it idsorb to soil particles and will not be mo-
12.5 F	Results	s of PBT and vPvB as	ses	ssment	
<u>P</u>	roduc	<u>t:</u>			
А	SSESSI	ment	:		not contain any REACH registered sub- ssessed to be a PBT or a vPvB
12.6 E	Endocr	rine disrupting prope	rtie	S	
<u>P</u>	roduc	<u>t:</u>			
A	SSESSI	ment	:	have endocrine disr 57(f) or Commission	ure does not contain components considered to upting properties according to REACH Article n Delegated regulation (EU) 2017/2100 or tion (EU) 2018/605 at levels of 0.1% or higher.
12.7 0	Other a	adverse effects			
<u>P</u>	roduc	<u>t:</u>			
	ddition nation	nal ecological infor-	:	tion potential or glo Product is a mixture	e depletion potential, photochemical ozone crea- bal warming potential. e of non-volatile components, which will not be y significant quantities under normal conditions
				Poorly soluble mixt Causes physical fou	ure. ling of aquatic organisms.
					herwise, the data presented is representative of ole, rather than for individual component(s).
SECT	FION 1	13: Disposal consid	lera	tions	

13.1 Waste treatment methods

Product

: 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.

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			Waste aris posed of i to a recog collector o Do not dis	ills or used product is dangerous waste. sing from a spillage or tank cleaning should be dis- n accordance with prevailing regulations, preferably nised collector or contractor. The competence of the r contractor should be established beforehand. pose of tank water bottoms by allowing them to the ground. This will result in soil and groundwater tion.
			Pollution f	- see International Convention for the Prevention of rom Ships (MARPOL 73/78) which provides tech- cts at controlling pollutions from ships.
(Contam	inated packaging	to a recog the collect Disposal s	accordance with prevailing regulations, preferably nized collector or contractor. The competence of or or contractor should be established beforehand. hould be in accordance with applicable regional, nd local laws and regulations.
L	Local le	gislation		
١	Waste o	catalogue	:	
			EU Waste	Disposal Code (EWC):
١	Waste (Code	:	
			13 02 06*	
F	Remark	KS		hould be in accordance with applicable regional, nd local laws and regulations.
			Classificat user.	ion of waste is always the responsibility of the end
			Hazardou	Waste (England and Wales) Regulations 2005.

SECTION 14: Transport information

14.1	UN	number	or	ID	number	

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good

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IATA : Not regulated as a dangerous good 14.2 UN proper shipping name						
-						
ADR		: Not regulated as a dangerous good				
RID	_	: Not regulated as a dangerous good				
	-	 Not regulated as a dangerous good Not regulated as a dangerous good 				
14.3 Tran	sport hazard class(es)					
ADR		: Not regulated as a dangerous good				
RID						
	_	: Not regulated as a dangerous good				
	-	 Not regulated as a dangerous good Not regulated as a dangerous good 				
14.4 Pacl	king group					
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMD	3	: Not regulated as a dangerous good				
IATA	-	: Not regulated as a dangerous good				
14.5 Envi	ronmental hazards					
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMD	G	: Not regulated as a dangerous good				
14.6 Spe	cial precautions for use	r				
Rem	arks	: Special Precautions: Refer to Section 7, Handling & St for special precautions which a user needs to be aware needs to comply with in connection with transport.				

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Product is not subject to Authorisa- tion under REACH.

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Volatile organic compounds : Volatile organic compounds (VOC) content: 0 %

Other regulations:

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

Environmental Protection Act 1990 (as amended). Health and Safety at Work etc. Act 1974. Consumers Protection Act 1987. Pollution Prevention and Control Act 1999. Environment Act 1995. Factories Act 1961. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). Control of Major Accident Hazards Regulations 1999 (as amended). Renewable Transport Fuel Obligations Order 2007 (as amended). Energy Act 2011. Environmental Permitting (England and Wales) Regulations 2010 (as amended). Waste (England and Wales) Regulations 2011 (as amended). Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011.

The components of this product are reported in the following inventories:

REACH :	Notified with Restrictions.
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TSCA : All components listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements			
H302 :	Harmful if swallowed.		
H317 :	May cause an allergic skin reaction.		
H361 :	Suspected of damaging fertility or the unborn child.		
H373 :	May cause damage to organs through prolonged or repeated exposure if swallowed.		
H400 :	Very toxic to aquatic life.		
H410 :	Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviations			
Acute Tox. :	Acute toxicity		
Aquatic Acute :	Short-term (acute) aquatic hazard		
Aquatic Chronic :	Long-term (chronic) aquatic hazard		
Repr. :	Reproductive toxicity		
Skin Sens. :	Skin sensitisation		
STOT RE :	Specific target organ toxicity - repeated exposure		

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice	:	Provide adequate information, instruction and training for operators.	
Other information	:	A vertical bar () in the left margin indicates an amendment from the previous version.	
		There has been a significant change in compositional infor- mation in section 2 & 3.	
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).	
Classification of the mixture	e:	Classification procedure:	
Aquatic Chronic 3	H4	12 Expert judgement and weight of evi-	

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			dence determination.
Identi	fied Uses according	to the Use Descriptor	r System
	- Worker		
Title		: General use of lu ery. - Professional	bricants and greases in vehicles or machin-
Uses - Title	- Worker	: General use of lu ery. - Industrial	bricants and greases in vehicles or machin-

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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Exposure Scenario - Worker
20000000000

30000000200		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	General use of lubricants and greases ir	n vehicles or machin-
	ery Professional	
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2 8b, PROC 20 Environmental Release Categories: E ATIEL-ATC SPERC 9.Bp.v1	
Scope of process	Covers general use of lubricants and gree machinery in closed systems. Includes f containers and operation of enclosed main engines) and associated maintenance a	illing and draining of achinery (including
SECTION 2	OPERATIONAL CONDITIONS AND RI	SK MANAGEMENT
Additional Information	No exposure assessment presented for	human health.
Section 2.1	Control of Worker Exposure	
Product Characteristics	· · ·	
Contributing Scenarios	Risk Management Measures	
Section 2.2	Control of Environmental Exposure	
Amounts Used		
EU tonnage (tonnes per year		5.39E+03
Fraction of EU tonnage used	in region:	0.1
Fraction of Regional tonnage		0.1
Frequency and Duration of	Use	
Emission Days (days/year):		365
Environmental factors not	influenced by risk management	
Local freshwater dilution fact		10
Local marine water dilution fa		100
Negligible wastewater emissi contact.	ons affecting Environmental Exposure ions as process operates without water	
Release fraction to air from p	rocess (after typical onsite RMMs) :	1.00E-04
Release fraction to wastewat RMMs and before (municipal	er from process (after typical onsite) sewage treatment plant):	5.00E-04
	process (after typical onsite RMMs):	1E-03
	neasures at process level (source) to p	revent release
	ss sites thus conservative process re-	
lease estimates used.		· · ·
sions and releases to soil	s and measures to reduce or limit disch	harges, air emis-
wastewater.	lved substance to or recover from onsite	
Organisational measures to	o prevent/limit release from site	

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Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Conditions and Measures related to municipal sewage treatment plant		
Estimated substance removal from wastewater via domestic sewage	9.23E-02	
treatment (%)		
Assumed domestic sewage treatment plant flow (m3/d)	2.00E+03	
Maximum allowable site quantity (MSafe) based on OCs and RMMs	2.707E+02	
as above (kg/day) :		
Conditions and Measures related to external treatment of waste for disposal		

External treatment and disposal of waste should comply with applicable local and/or regional regulations.

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

SECTION 3

EXPOSURE ESTIMATION

Section 3.1 - Health

No exposure assessment presented for human health.

Section 3.2 - Environment

Used ECETOC TRA model.

SECTION 4 GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

No exposure assessment presented for human health.

Section 4.2 - Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org).

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a sitespecific chemical safety assessment is required.

For further information see www.ATIEL.org/REACH_GES.

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Exposure Scenario - Worker 300000000199

3000000133	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	General use of lubricants and greases in vehicles or machin- ery Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 8b, PROC 9 Environmental Release Categories: ERC4, ERC7, ATIEL- ATC SPERC 4.Bi.v1
Scope of process	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

MEASURES	SK MANAGEMENT	
No exposure assessment presented for h	numan health.	
Control of Worker Exposure		
Risk Management Measures		
Control of Environmental Exposure		
r):	2.63E+03	
	0.1	
	0.1	
f Use		
	300	
influenced by risk management	10	
Local freshwater dilution factor:		
Local marine water dilution factor:		
ions as process operates without water		
	5.00E-05	
Release fraction to air from process (after typical onsite RMMs) :		
	2.00E-11	
	0	
	event release	
oss sites thus conservative process re-		
s and measures to reduce or limit disch	arges, air emis-	
a typical removal officianay of (9/)	70	
	10	
Sived Substance to or recover from onsite		
e provided with oil/water separators or	+	
	No exposure assessment presented for h Control of Worker Exposure Risk Management Measures Control of Environmental Exposure ar): d in region: e used locally: f Use influenced by risk management tor: factor: ons affecting Environmental Exposure	

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aquivalent and for waata water to be discharged via public sower ava				
equivalent and for waste water to be discharged via public sewer sys-				
tem.				
Organisational measures to prevent/limit release from site				
Do not apply industrial sludge to natural soils.				
Sludge should be incinerated, contained or reclaimed.				
Conditions and Measures related to municipal sewage treatment plant				
Estimated substance removal from wastewater via domestic sewage	9.23E-02			
treatment (%)				
Assumed domestic sewage treatment plant flow (m3/d)	2.00E+03			
Maximum allowable site quantity (MSafe) based on OCs and RMMs	2.39485E+04			
as above (kg/day) :				
Conditions and Measures related to external treatment of waste for disposal				
External treatment and disposal of waste should comply with applicable local and/or regional				
regulations.				
5				

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

SECTION 3

EXPOSURE ESTIMATION

Section 3.1 - Health

No exposure assessment presented for human health.

Section 3.2 - Environment

Used ECETOC TRA model.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

No exposure assessment presented for human health.

Section 4.2 - Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org).

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