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

#### 1.1 Product identifier

Trade name	: Shell Gadus S5 V42P 2.5
Product code	: 001D8525

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

Use of the Sub- stance/Mixture	: Automotive and industrial grease.
Uses advised against	: This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the sup- plier.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: Haberkorn d.o.o.
	Vodovodna ulica 7
	SI-2000 MARIBOR
Telephone	: +386 1 586 37 80
Telefax	: +386 1 586 37 90
Contact for Safety Data Sheet	: maziva@haberkorn.si

1.4 Emergency telephone number

: Consult your personal or duty doctor, in case of life-emergency call 112

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008) Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION	(EC)	No 1272/2008)
Hazard pictograms Signal word	:	No Hazard Symbol required No signal word
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP

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		criteria H412	HEALTH H Not classif ENVIRON	HAZARDS: ied as a health hazard under CLP criteria. MENTAL HAZARDS: aquatic life with long lasting effects.
Precautionary statements		: <b>Preve</b> P273	ase to the environment.	
		Respo		tionary phrases.
		Storag	je:	
			No precau	tionary phrases.
		<b>Dispo</b> P501 dispos		f contents/ container to an approved waste
Sensit	ising components		ains Zinc Na produce an a	phthenate 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 grease may contain harmful impurities.

High-pressure injection under the skin may cause serious damage including local necrosis. Not classified as flammable but will burn.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : A lubricating grease containing severely hydrotreated slack wax and additives.

#### Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		

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	ates (Fischer - Tropsch) v, C18-50 – branched, cy near	-		60 - 70
Napht	thenic acids, zinc salts, l	basic 84418-50-8 282-762-6 01-2119988	Eye Irrit. 2; H319	),1 - 0,9
Zinc c	oxide	1314-13-2 215-222-5 030-013-00- 01-21194638	H400 7 Aquatic Chronic 1;	,25 - 0,9
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
Alkary	/l amine	68411-46-1 270-128-1 01-21194912		),1 - 0,9

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.
		When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
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.

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	If swalld	owed	:		ment is necessary unless large quantities wever, get medical advice.
4.2 N	/lost im	portant symptoms a	nd e	ffects. both acute	and delayed
	Sympto		:	Oil acne/folliculitis of black pustules a Ingestion may res Local necrosis is e	signs and symptoms may include formation and spots on the skin of exposed areas. ult in nausea, vomiting and/or diarrhoea.
				tissue damage a f	ew hours following injection.
43 h	ndicatio	on of any immediate	med	lical attention and	special treatment needed
	Treatme	•	:	Notes to doctor/ph Treat symptomatic High pressure injervention and possible age and loss of fur Because entry wo ousness of the und determine the external anaesthetics or ho can contribute to s surgical decompre- eign material should	ysician: cally. ction injuries require prompt surgical inter- oly steroid therapy, to minimise tissue dam-
SEC	TION 5	5: Firefighting mea	sure	es	
<b>-</b>					
	-	shing media		_	
	Suitable	e extinguishing media	:		y or fog. Dry chemical powder, carbon diox- may be used for small fires only.
	Unsuita media	ble extinguishing	:	Do not use water i	n a jet.
5.2 S	Special	hazards arising from	1 the	substance or mix	tture
	•	•			stion products may include:

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.
		ondentined organic and morganic compounds.

#### 5.3 Advice for firefighters

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

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				. Select fire fighter's clothing approved to ls (e.g. Europe: EN469).
Specif ods	ic extinguishing meth-	:		measures that are appropriate to local cir- the surrounding environment.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>6.1.1 For non emergency personnel: Avoid contact with skin and eyes.</li> <li>6.1.2 For emergency responders: Avoid contact with skin and eyes.</li> </ul>
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### 6.2 Environmental precautions

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.
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#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

#### 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

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 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 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.

#### 7.2 Conditions for safe storage, including any incompatibilities

Further information on stor-	:	Keep container tightly closed and in a cool, well-ventilated
age stability		place.

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			Use properly labe Store at ambient t	led and closable containers. emperature.
Packaging material		:	Refer to section 15 for any additional specific legislation ering the packaging and storage of this product. Suitable material: For containers or container linings, us 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.	
7.3 Specific end use(s) Specific use(s)		:	Not applicable	

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Oil mist, mineral	Not As- signed	TWA (inhalable fraction)	5 mg/m3	US. ACGIH Threshold Limit Values

#### **Biological occupational exposure limits**

#### 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.

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Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur.

#### 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.	
Hand protection			
Remarks	:	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break-through time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.	
Skin and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.	
Respiratory protection	:	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precau- tions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentra- tions to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the spe- cific conditions of use and meeting relevant legislation.	

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		Where air-filteri priate combinat Select a filter su	biratory protective equipment suppliers. ng respirators are suitable, select an appro- ion of mask and filter. uitable for combined particulate/organic gases ype A/Type P boiling point > 65°C (149°F)] 87 and EN143.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	:	Semi-solid at ambient temperature.
Colour	:	light brown
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
Dropping point	:	180 °C Method: IP 396
Melting / freezing point		Not applicable
Initial boiling point and boiling range	:	Data not available
Flammability		
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Lower explosion limit and uppe	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	:	Not applicable
Auto-ignition temperature	:	> 320 °C
Decomposition temperature Decomposition tempera- ture	:	Data not available
рН	:	Not applicable
Viscosity		

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	Vis	cosity, dynamic	:	Data not available		
	Viscosity, kinematic		:	42 mm2/s (40,0 ° Method: ASTM E		
				8 mm2/s (100 °C Method: ASTM E		
	Solubi	ity(ies)				
		ter solubility	:	negligible		
	Sol	ubility in other solvents	:	Data not availabl	e	
		n coefficient: n- l/water	:		ation on similar products)	
	Vapou	r pressure	:	<pre>&lt; 0,5 Pa (20 °C) estimated value(s)</pre>		
	Relativ	e density	:	0,900 (15 °C)		
	Densit	у	:	900 kg/m3 (15,0 °C) Method: Unspecified		
	Relativ	re vapour density	:	: > 1 estimated value(s)		
9.2	Other i	nformation				
	Explos	ives	:	Classification Co	de: Not classified	
	Oxidizi	ng properties	:	Data not availabl	e	
	Flamm	ability (liquids)	:	Not classified as	flammable but will burn.	
	Evapo	ration rate	:	Data not availabl	e	
	Condu	ctivity	:	This material is r	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 Conditions to avoid

Conditions to avoid	:	Extremes of temperature and direct sunlight.
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#### 10.5 Incompatible materials

Materials to avoid

: Strong oxidising agents.

#### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

#### **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008				
Information on likely routes of exposure	:	Skin and eye contact are the primary routes of exposure alt- hough 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.		

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Resp	iratory or skin sensitis	satio	on	
Prod	uct:			
Remarks		:	For respiratory and skin sensitisation: Not a sensitiser. Based on available data, the classification criteria are not	
Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vivo	:	Remarks: Non n Based on availa	nutagenic ble data, the classification criteria are not me
Germ sessn	cell mutagenicity- As- nent	:	This product does not meet the criteria for classification in categories 1A/1B.	
Carci	nogenicity			
Prod	uct:			
Rema	arks	:	Not a carcinoger Based on availa	n. ble data, the classification criteria are not me
Carcii ment	nogenicity - Assess-	:	This product doe categories 1A/1	es not meet the criteria for classification in 3.
Mate	rial	G	HS/CLP Carcino	genicity Classification

Zinc oxide

Product: Effects on fertility	:	Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.
Reproductive toxicity - As- sessment	:	This product does not meet the criteria for classification in categories 1A/1B.
<b>STOT - single exposure</b> <u>Product:</u> Remarks	:	Based on available data, the classification criteria are not met.

No carcinogenicity classification.

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s	STOT - repea	ted exposure			
P	Product:				
R	Remarks		:	Based on availabl	e data, the classification criteria are not met.
А	spiration to				
<u>P</u>	Product:				
Ν	lot an aspirat	ion hazard., Ba	sed	on available data, t	he classification criteria are not met.
11.2 lı	nformation o	on other hazar	ds		
E	Endocrine di	srupting prope	ertie	S	
<u>P</u>	Product:				
A	Assessment		:	ered to have endo REACH Article 57	xture does not contain components consid- ocrine disrupting properties according to (f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at higher.
F	urther infor	nation			
<u>P</u>	Product:				
R	Remarks		:	mulated during us ties will depend of and the environme	should be handled with caution and skin
R	Remarks		:		ection of product into the skin may lead to e product is not surgically removed.
R	Remarks		:	Slightly irritating to	o respiratory system.
R	Remarks		:	Classifications by frameworks may e	other authorities under varying regulatory exist.
R	Remarks		:		otherwise, the data presented is representa- as a whole, rather than for individual com-

### **SECTION 12: Ecological information**

### 12.1 Toxicity

#### Product:

: Remarks: LL/EL/IL50 10-100 mg/l Harmful

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		y to daphnia and other invertebrates	:	Remarks: LL/EL/II Harmful	L50 10-100 mg/l
	Toxicit	y to algae/aquatic plants	:	Remarks: LL/EL/II Harmful	L50 10-100 mg/l
	Toxicit icity)	y to fish (Chronic tox-	:	Remarks: Data not	available
		y to daphnia and other c invertebrates (Chron- ity)		Remarks: Data not	available
	Toxicit	y to microorganisms	:	Remarks: Data not	available
	Comp	onents:			
	<b>Zinc o</b> M-Fact icity)	xide: or (Acute aquatic tox-	:	1	
	M-Fact toxicity	or (Chronic aquatic )	:	1	
12.	2 Persis	tence and degradabil	ity		
	<u>Produ</u>	<u>ct:</u>			
	Biodeg	radability	:	5	ily biodegradable. are inherently biodegradable, but contains com- ersist in the environment.
12.	3 Bioac	cumulative potential			
	Produ				
	Bioacc	umulation	:	Remarks: Contains	components with the potential to bioaccumulate.
12.4	4 Mobili	ty in soil			
	<u>Produ</u>	<u>ct:</u>			
	Mobilit	y	:		olid under most environmental conditions., If Il adsorb to soil particles and will not be mo-
				Remarks: Floats	on water.

#### 12.5 Results of PBT and vPvB assessment

#### Product:

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Assessment			: This mixture does not contain any REACH registered sub- stances that are assessed to be a PBT or a vPvB				
12.6 Endo	crine disrupting prop	erties					
<u>Produ</u>	<u>ıct:</u>						
Asses	Assessment		: 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.				
12.7 Other	r adverse effects						
<u>Produ</u>	<u>ict:</u>						
Additional ecological infor- mation		tion potential of Product is a m	ozone depletion potential, photochemical ozone crea- or global warming potential. ixture of non-volatile components, which will not be in any significant quantities under normal conditions				
		Poorly soluble Causes physic	mixture. al fouling of aquatic organisms.				
			ed otherwise, the data presented is representative of a whole, rather than for individual component(s).				

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>Recover or recycle if possible.</li> <li>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.</li> <li>Do not dispose into the environment, in drains or in water courses.</li> </ul>
	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. Waste arising from a spillage or tank cleaning should be dis- posed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.
	MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides tech-

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		nical aspects	at controlling pollutions from ships.
Cont	aminated packaging	to a recogniz the collector Disposal sho	ccordance with prevailing regulations, preferably ed collector or contractor. The competence of or contractor should be established beforehand. uld be in accordance with applicable regional, local laws and regulations.
Loca	l legislation		
Wast	e catalogue	:	
		EU Waste Di	sposal Code (EWC):
Wast	e Code	:	
		12 01 12*	
Rem	arks		uld be in accordance with applicable regional, local laws and regulations.
		Classificatior user.	of waste is always the responsibility of the end

### **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 IATA	:	Not regulated as a dangerous good 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
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14 4 Packing group		

14.4 Packing group

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ADR		:	Not regulated as	a dangerous good
RID		:	J. J	a dangerous good
IMDG IATA		:	Not regulated as Not regulated as	a dangerous good a dangerous good
14.5 Environmental hazards				
ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDG		:	Not regulated as	a dangerous good
14.6 Special precautions for user				
Remai	rks	:	for special precau	ons: Refer to Section 7, Handling & Storage, utions which a user needs to be aware of or 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.

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.

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.

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#### **SECTION 16: Other information**

#### Full text of H-Statements

H304	:	May be fatal if swallowed and enters airways.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H361	:	Suspected of damaging fertility or the unborn child.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
Full text of other abbreviation	ns	

Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
Skin Sens.	:	Skin sensitisation

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

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	Furthe	r information				
	Trainin	g advice	:	: Provide adequate information, instruction and training for erators.		
	Other ir	nformation	:	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		:	<ul> <li>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).</li> </ul>			
	Classif	ication of the mixture	<b>:</b> :		Classification procedure:	
	Aquatic	Chronic 3	H4	12	Expert judgement and weight of evi- dence determination.	
		ed Uses according to Worker	o th	e Use Descriptor \$	System	
	Title		:	General use of lub ery Industrial	icants and greases in vehicles or machin-	
	Uses -	Worker				
	Title		:	General use of lub ery Professional	icants and greases in vehicles or machin-	
	<b>Uses -</b> Title	Worker	:	Use of lubricants a	nd greases in open systems Industrial	
	<b>Uses -</b> Title	Worker	:	Use of lubricants a	nd greases in open systems Professional	

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 300000000189

SECTION 1	EXPOSURE SCENARIO TITLE
Title	General use of lubricants and greases in vehicles or machin- ery Industrial
Use Descriptor	Sector of Use: SU3 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.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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	):	2,63E+03
Fraction of EU tonnage used	in region:	0,1
Fraction of Regional tonnage	used locally:	0,1
Frequency and Duration of	Use	
Emission Days (days/year):		300
Environmental factors not i	nfluenced by risk management	
Local freshwater dilution factor	pr:	10
Local marine water dilution fa	ctor:	100
Other Operational Conditions affecting Environmental Exposure		
Negligible wastewater emissi	ons as process operates without water	
contact.		
Release fraction to air from p	rocess (after typical onsite RMMs) :	5,00E-05
Release fraction to wastewater from process (after typical onsite		2,00E-11
RMMs and before (municipal) sewage treatment plant):		
Release fraction to soil from process (after typical onsite RMMs):		0
Technical conditions and measures at process level (source) to prevent release		
	ss sites thus conservative process re-	
lease estimates used.		
	and measures to reduce or limit dis	scharges, air emis-
sions and releases to soil		
Treat air emission to provide	a typical removal efficiency of (%)	70

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Prevent discharge of undissolved substance to or recover from onsite wastewater.	
User sites are assumed to be provided with oil/water separators or	
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 p	olant
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	2,634321E+06
as above (kg/day) :	
Conditions and Measures related to external treatment of waste for	or disposal
External treatment and disposal of waste should comply with applicable	e local and/or regiona
regulations.	-
-	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable regulations.	e local and/or regiona

#### **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 300000010651

SECTION 1	EXPOSURE SCENARIO TITLE
Title	General use of lubricants and greases in vehicles or machin- ery Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC 1, PROC 2, PROC 8a, PROC 8b, PROC 20 Environmental Release Categories: ERC9a, ERC9b, ATIEL-ATC SPERC 9.Bp.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.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.

ction 2.1 C	ontrol of Worker Exposure
duct Characteristics	

Contributing Scenarios Risk Management Measures

Section 2.2 Control of Environmental Exposure		
Amounts Used		
EU tonnage (tonnes per year	r):	5.387,2
Fraction of EU tonnage used	in region:	0,1
Fraction of Regional tonnage	used locally:	0,1
Frequency and Duration of	Use	
Emission Days (days/year):		365
Environmental factors not	influenced by risk management	
Local freshwater dilution fact	or:	10
Local marine water dilution fa	actor:	100
Other Operational Conditio	ns affecting Environmental Exposure	•
Negligible wastewater emissi	ons as process operates without water	
contact.		
Release fraction to air from p	rocess (after typical onsite RMMs) :	
Release fraction to wastewater from process (after typical onsite		5,00E-04
RMMs and before (municipal		
Release fraction to soil from process (after typical onsite RMMs):		1E-03
Technical conditions and measures at process level (source) to prevent release		
Common practices vary acro	ss sites thus conservative process re-	
lease estimates used.		
Technical onsite conditions sions and releases to soil	s and measures to reduce or limit dis	charges, air emis-

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Prevent discharge of undissolved substance to or recover from onsite	
wastewater.	
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 p	olant
Estimated substance removal from wastewater via domestic sewage treatment (%)	0,1
Assumed domestic sewage treatment plant flow (m3/d)	2,00E+03
Maximum allowable site quantity (MSafe) based on OCs and RMMs as above (kg/day) :	29.727
Conditions and Measures related to external treatment of waste for	r disposal
External treatment and disposal of waste should comply with applicable regulations.	e local and/or regional
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	local and/or regional

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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 300000010679

50000010079	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use of lubricants and greases in open systems Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC 1, PROC 2, PROC 7, PROC 8b, PROC 9, PROC 10, PROC 13 Environmental Release Categories: ERC4, ATIEL-ATC SPERC 4.Ci.v1
Scope of process	Covers use of lubricants and greases in open systems, in- cluding application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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	):	380,9
Fraction of EU tonnage used	in region:	0,1
Fraction of Regional tonnage	used locally:	0,1
Frequency and Duration of	Use	
Emission Days (days/year):		300
Environmental factors not i	influenced by risk management	
Local freshwater dilution factor	or:	10
Local marine water dilution factor:		100
	ns affecting Environmental Exposure	•
Negligible wastewater emissi	ons as process operates without water	
contact.		
	rocess (after typical onsite RMMs) :	5,00E-05
	er from process (after typical onsite	2,00E-11
RMMs and before (municipal		
	process (after typical onsite RMMs):	0
	neasures at process level (source) to	prevent release
	ss sites thus conservative process re-	
lease estimates used.		
Technical onsite conditions	s and measures to reduce or limit dis	charges, air emis-

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Treat air emission to provide	a typical removal efficiency of (%)	70
Prevent discharge of undisso wastewater.	lved substance to or recover from onsite	
User sites are assumed to be	provided with oil/water separators or	
	er to be discharged via public sewer sys-	
Organisational measures to	o prevent/limit release from site	
Do not apply industrial sludge Sludge should be incinerated		
Conditions and Measures r	elated to municipal sewage treatment p	olant
	I from wastewater via domestic sewage	0,1
Assumed domestic sewage to	reatment plant flow (m3/d)	2,00E+03
Maximum allowable site quar as above (kg/day) :	ntity (MSafe) based on OCs and RMMs	386.082,9
<b>Conditions and Measures r</b>	elated to external treatment of waste for	r disposal
External treatment and disported regulations.	sal of waste should comply with applicable	local and/or regional
Conditions and measures r	elated to external recovery of waste	
	ng of waste should comply with applicable	local and/or regional
SECTION 3	EXPOSURE ESTIMATION	

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 300000010680

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use of lubricants and greases in open systems Professional
Use Descriptor	Sector of Use: SU22
	Process Categories: PROC 1, PROC 2, PROC 8a, PROC 10, PROC 11, PROC 13
	Environmental Release Categories: ERC8a, ERC8d, ATIEL-ATC SPERC 8.Cp.v1
	ATTEL-ATC SPERC 0.00.01
Scope of process	Covers use of lubricants and greases in open systems, in- cluding application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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):		224	
Fraction of EU tonnage used in region:		0,1	
Fraction of Regional tonnage used locally:		0,1	
Frequency and Duration of	Use		
Emission Days (days/year):		365	
Environmental factors not i	influenced by risk management		
Local freshwater dilution factor:		10	
Local marine water dilution factor:		100	
Other Operational Conditio	ns affecting Environmental Exposure	;	
Negligible wastewater emissions as process operates without water			
contact.			
Release fraction to air from p	rocess (after typical onsite RMMs) :		
	er from process (after typical onsite	5,00E-04	
RMMs and before (municipal			
Release fraction to soil from process (after typical onsite RMMs):		1E-03	
Technical conditions and measures at process level (source) to prevent release			
Common practices vary acros	ss sites thus conservative process re-		
lease estimates used.			
Technical onsite conditions and measures to reduce or limit discharges, air emis-			

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sions and releases to soil		
Prevent discharge of undissolved substance to or recover from onsite		
wastewater.		
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 p	olant	
Estimated substance removal from wastewater via domestic sewage	0,1	
treatment (%)		
Assumed domestic sewage treatment plant flow (m3/d)	2,00E+03	
Maximum allowable site quantity (MSafe) based on OCs and RMMs	3.443	
as above (kg/day) :		
Conditions and Measures related to external treatment of waste for	r 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.

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