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

1.1 Product identifier

Trade name	:	Shell Gadus S2 V220 2
Product code	:	001D8451

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

Use of the Substance/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 supplier.	

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	:	Univar AB Box 4072 SE-203 11 Malmö
Telephone Telefax Email Contact for Safety Data Sheet	:	040-352800 ; 040-125172 sds.se@univareurope.com

1.4 Emergency telephone number

: Outside office hours: SOS Alarm: 040-6769040;112, ask for Poison center; Kemiakuten: 020-996000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (C) No 1272/2008)	
Hazard pictograms	: No Hazard Symbol requir	ed
Signal word	: No signal word	
Hazard statements	Not cla	ICAL HAZARDS: assified as a physical hazard ling to CLP criteria.

EALTH HAZARDS: ot classified as a health hazard under CLP teria. NVIRONMENTAL HAZARDS: ot classified as environmental hazard cording to CLP criteria.
o precautionary phrases. o precautionary phrases. o precautionary phrases. o precautionary phrases.

2.3	Other	hazards

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

May produce an allergic reaction.

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 highly-refined mineral oils and additives.
 The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION	[%]
	Registration	(EC) No	
	number	1272/2008)	
Naphthenic acid	1338-24-5	Skin Irrit.2; H315	0,1 - 0,9
	215-662-8	Skin Sens.1; H317	
		Eye Irrit.2; H319	

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures 4.1 Description of first aid measures General advice : Not expected to be a health hazard when used under normal conditions. : When administering first aid, ensure that you are wearing the Protection of first-aiders 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 water 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. : Flush eye with copious quantities of water. In case of eye contact If persistent irritation occurs, obtain medical attention. If swallowed : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. 4.2 Most important symptoms and effects, both acute and delayed : Oil acne/folliculitis signs and symptoms may include formation Symptoms of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. 4.3 Indication of any immediate medical attention and special treatment needed Treatment Notes to doctor/physician: Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they

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can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.					
SECTION 5: Firefighting measures					
5.1 Extinguishing media					
Suitable extinguishing media	: Foam, water spray or fog. Dry chemi dioxide_sand or earth may be used f	•			

Unsuitable extinguishing media 5.2 Special hazards arising fror	 Do not use water in a jet. m the substance or mixture
Specific hazards during firefighting	: 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.
5.3 Advice for firefighters	
Special protective equipmen for firefighters	t : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 avoid environmental contamination. 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 materials for c	containment and cleaning up	
Methods for cleaning up	Prevent from spreading or enter rivers by using sand, earth, or c	
6.4 Reference to other sections	5	
	personal protective equipment see Chapt spilled material see Chapter 13 of this Saf	
SECTION 7: Handling and st	orage	
General Precautions	: Use local exhaust ventilation if there vapours, mists or aerosols. Use the information in this data she assessment of local circumstances t appropriate controls for safe handlin this material.	et as input to a risk to help determine
7.1 Precautions for safe handlin	ng	
Advice on safe handling	 Avoid prolonged or repeated contac Avoid inhaling vapour and/or mists. When handling product in drums, sa worn and proper handling equipmen Properly dispose of any contaminate materials in order to prevent fires. 	fety footwear should be it should be used.
7.2 Conditions for safe storage	, including any incompatibilities	
Other data	: Keep container tightly closed and in place. Use properly labeled and closed	
	Store at ambient temperature.	
	Refer to section 15 for any additiona covering the packaging and storage	
Packaging material	: Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not temperatures because of possible ri	
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		NGV (Mist)	1 mg/m3	AFS 2015:7	
Further information	Certain oils when heated give rise to polycyclic aromatic hydrocarbons (PAH) which can be carcinogenic. In addition, mineral oils in themselves can contain such substances, For mist from aqueous cutting fluid or suchlike, which may also include substances other than oils, the value is applied as a total content with regard to the non-aqueous part. For substances with individual lower limit values, these are applied.				
Oil mist, mineral		KGV (Mist)	3 mg/m3	AFS 2015:7	
Further information	Certain oils when heated give rise to polycyclic aromatic hydrocarbons (PAH) which can be carcinogenic. In addition, mineral oils in themselves can contain such substances, For mist from aqueous cutting fluid or suchlike, which may also include substances other than oils, the value is applied as a total content with regard to the non-aqueous part. For substances with individual lower limit values, these are applied.				
Oil mist, mineral		TWA ((inhalable fraction))	5 mg/m3	US. ACGIH Threshold Limit Values	
Oil mist, mineral		TWA (Mist)	1 mg/m3	AFS 2015:7	
Oil mist, mineral		(Mist)	3 mg/m3	AFS 2015:7	

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany

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http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

8.2 Exposure controls

Engineering measuresThe 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.

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.

Hand protection	o eyes,
Remarks : Where hand contact with the product may occur the us gloves approved to relevant standards (e.g. Europe: E US: F739) made from the following materials may pro- suitable chemical protection. PVC, neoprene or nitrile gloves Suitability and durability of a glove is depender usage, e.g. frequency and duration of contact, chemic resistance of glove material, dexterity. Always seek ac from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effecti- care. Gloves must only be worn on clean hands. After gloves, hands should be washed and dried thoroughly	N374, vide rubber t on al vice ve hand using

	<u> </u>	
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	Application of a non-perfumed mois For continuous contact we recomm breakthrough time of more than 240 for > 480 minutes where suitable glu short-term/splash protection we rec recognize that suitable gloves offeri may not be available and in this cas time maybe acceptable so long as a and replacement regimes are follow a good predictor of glove resistance dependent on the exact composition Glove thickness should be typically depending on the glove make and r	end gloves with O minutes with preference oves can be identified. For commend the same, but ing this level of protection se a lower breakthrough appropriate maintenance ved. Glove thickness is not e to a chemical as it is n of the glove material. greater than 0.35 mm
Skin and body protection	 Skin protection is not ordinarily requestion work clothes. It is good practice to wear chemical 	-
Respiratory protection	 No respiratory protection is ordinari conditions of use. In accordance with good industrial f precautions should be taken to avoid If engineering controls do not maint concentrations to a level which is act health, select respiratory protection specific conditions of use and meet Check with respiratory protective ect Where air-filtering respirators are su appropriate combination of mask ar Select a filter suitable for combined and vapours [Type A/Type P boiling meeting EN14387 and EN143. 	hygiene practices, id breathing of material. tain airborne dequate to protect worker equipment suitable for the ing relevant legislation. quipment suppliers. uitable, select an nd filter. particulate/organic gases
Thermal hazards	: Not applicable	

Environmental exposure controls

General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Semi-solid at ambient temperature.
Colour	:	brown
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
Drop point	:	180 °CMethod: IP 396
Initial boiling point and boiling range	:	Data not available
Flash point	:	Remarks: Not applicable
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) estimated value(s)
Relative vapour density	:	> 1estimated value(s)
Relative density	:	1,000 (15 °C)
Density	:	1.000 kg/m3 (15,0 °C) Method: Unspecified
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	Data not available
Partition coefficient: n- octanol/water	:	Pow: > 6(based on information on similar products)
Auto-ignition temperature	:	> 320 °C
Viscosity		

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Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: Not applicable	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
9.2 Other information		
Conductivity	: This material is not expected to be a	a static accumulator.
Decomposition temperature	: Data not available	

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.
10.4 Conditions to avoid Conditions to avoid	: Extremes of temperature and direct sunlight.
10.5 Incompatible materials	. Extremes of temperature and direct sumight.
Materials to avoid	: Strong oxidising agents.
10.6 Hazardous decomposition	products
Hazardous decomposition	: Hazardous decomposition products are not expected to form

Hazardous decomposition produ

products	during normal storage.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Basis for assessment: Information given is based on data on the components a the toxicology of similar products.Unless indicated other the data presented is representative of the product as a whole, rather than for individual component(s).
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Information on likely routes of exposure	: Skin and eye contact are the primary ro although exposure may occur following	
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 rat: > 5.000 mg/kg Remarks: Expected to be of low toxicity	y:
Acute inhalation toxicity	: Remarks: Not considered to be an inha normal conditions of use.	alation hazard under
Acute dermal toxicity	: LD50 Rabbit: > 5.000 mg/kg Remarks: Expected to be of low toxicity	y:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: For respiratory and skin sensitisation:, Not expected to be a sensitiser.

Components:

Naphthenic acid:

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

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

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Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal., ALL used grease should be handled with caution and skin contact avoided as far as possible.

Remarks: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

Remarks: Slightly irritating to respiratory system.

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Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Summary on evaluation of the Germ cell mutagenicity- Assessment	 CMR properties This product does not meet the criteria for classification in categories 1A/1B. 	
Carcinogenicity - Assessment	: This product does not meet the criteria for classification in categories 1A/1B.	
Reproductive toxicity - Assessment	: This product does not meet the criteria for classification in categories 1A/1B.	

SECTION 12: Ecological information

12.1 Toxicity

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 representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Toxicity to fish (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic toxicity)	:	Remarks: Data not available
Toxicity to crustacean (Chronic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms	:	
(Acute toxicity)		Remarks: Data not available

12.2 Persistence and degradability

Product:

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Biodegradability	CO	Remarks: Expected to be not readily biodegradable., Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment.	
12.3 Bioaccumulative potentia	I		
Product:			
Bioaccumulation		marks: Contains components v accumulate.	with the potential to
Partition coefficient: n- octanol/water	: Po	Pow: > 6Remarks: (based on information on similar products)	
12.4 Mobility in soil			
Product:			
Mobility	it e mo	 Remarks: Semi-solid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water. 	
12.5 Results of PBT and vPvB	assessm	ent	
Product:			
Assessment		: This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.	
12.6 Other adverse effects			
Product:			
Additional ecological information	exy No pho poi Po org Mil	oduct is a mixture of non-volatil bected to be released to air in a t expected to have ozone deple btochemical ozone creation pol cential. orly soluble mixture., May caus panisms. heral oil is not expected to caus uatic organisms at concentratio	any significant quantities., etion potential, tential or global warming se physical fouling of aquatic se any chronic effects to

SECTION 13: Disposal considerations

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

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	Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.	
	Disposal, transport, storage and ha accordance with SE regulation Avf	
Contaminated packaging	: Dispose in accordance with prevai to a recognized collector or contrac- the collector or contractor should b Disposal should be in accordance national, and local laws and regula	ctor. The competence of be established beforehand. with applicable regional,
Local legislation Waste catalogue	:	
	EU Waste Disposal Code (EWC):	
Waste Code	:	
	12 01 12*	
Remarks	: Disposal should be in accordance national, and local laws and regula	
	Classification of waste is always th user.	e responsibility of the end
	Suggestion for emptied package: 15 01 02: Plastic packaging 15 01 04 metallic packaging. Packages containing any remainin not been emptied until drip dry,mu waste and must be well sealed bef Suggestion for waste code: 15 01 10: Packaging containing re- by dangerous substances	st be handled as dangerous fore disposal.

SECTION 14: Transport information

14.1 UN number		
ADR RID IMDG IATA	 Not regulated as a dangerous good 	
14.2 Proper shipping name		
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ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.3 Transport hazard class	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.4 Packing group	
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as 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 u	ser
Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage,
	for special precautions which a user needs to be aware of or
	needs to comply with in connection with transport.
14.7 Transport in bulk accordi	ng to Annex II of MARPOL 73/78 and the IBC Code
Pollution category	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable
Special precautions	: Not applicable
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.

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

REACH - List of substances subject to authorisation (Annex XIV) : Product is not subject to Authorisation under REACH.

Volatile organic compounds : 0 %

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

EINECS	: All components listed or polymer exempt.	
TSCA	: All components listed.	

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements		
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
	-	

Full text of other abbreviations

Eye Irrit. Skin Irrit. Skin Sens. Abbreviations and Acro	
	ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials
	BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level
	DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial Chemical Substances
	EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty

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	IL50 = Inhibitory Level fifty IMDG = International Maritime Dang INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test determination of polycyclic aromatic KECI = Korea Existing Chemicals In LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective LL50 = Lethal Loading fifty MARPOL = International Convention Pollution From Ships NOEC/NOEL = No Observed Effect Observed Effect Level OE_HPV = Occupational Exposure PBT = Persistent, Bioaccumulative a PICCS = Philippine Inventory of Che Substances PNEC = Predicted No Effect Concel REACH = Registration Evaluation A Chemicals RID = Regulations Relating to Interr Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Cont TWA = Time-Weighted Average vPvB = very Persistent and very Bio	method N° 346 for the sp DMSO-extractables iventory Loading/Inhibitory loading n for the Prevention of Concentration / No - High Production Volume and Toxic emicals and Chemical ntration and Authorisation Of hational Carriage of
Further information		
Other information	: No Exposure Scenario annex is atta	ached to this safety data

No Exposure Scenario annex is attached to this safety data sheet. It is a non-classified mixture containing hazardous substances as detailed in Section 3; relevant information from Exposure Scenarios for the hazardous substances contained have been integrated into the core sections 1-16 of this SDS.

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

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.