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

#### 1.1 Product identifier

Trade name	:	Shell Irus Fluid DU 46
Product code	:	001A0862

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

Use of the Substance/Mixture	:	Fire-resistant hydraulic fluid.
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 :	Shell UK Oil Products Limited Shell Centre London SE1 7NA United Kingdom
Telephone : Telefax :	(+44) 08007318888
Email 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	er in the second se

: +44-(0) 151-350-4595

### **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 (I	EC)	No 1272/2008)
Hazard pictograms	:	No Hazard Symbol required
Signal word	:	No signal word
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP criteria.

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Precautionary statements	: Prevention: Response: Storage: Disposal:	criteria. ENVIRONMENTAI	health hazard under CLP HAZARDS: nvironmental hazard rriteria. hrases. hrases.

### 2.3 Other hazards

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

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.

High-pressure injection under the skin may cause serious damage including local necrosis.

Fire resistant fluid that is unlikely to burn without assistance from combustible materials.

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

# 3.2 Mixtures

Chemical nature : Blend of carboxylic esters and additives.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	<ul> <li>Not expected to be a health hazard when used under normal conditions.</li> </ul>
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 water and follow by washing with soap if available.
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	If persistent irritation occurs, obtain	medical attention.
	When using high pressure equipmer under the skin can occur. If high pre casualty should be sent immediately for symptoms to develop. Obtain medical attention even in the wounds.	ssure injuries occur, the / to a hospital. Do not wait
In case of eye contact	: Flush eye with copious quantities of If persistent irritation occurs, obtain i	
If swallowed	: In general no treatment is necessary are swallowed, however, get medica	
4.2 Most important symptoms and	d effects, both acute and delayed	
Symptoms	<ul> <li>Oil acne/folliculitis signs and sympto of black pustules and spots on the s Ingestion may result in nausea, vom</li> </ul>	kin of exposed areas.
	Local necrosis is evidenced by delay tissue damage a few hours following	
4.3 Indication of any immediate m	nedical attention and special treatmer	nt needed
Treatment	: Notes to doctor/physician: Treat symptomatically.	
	High pressure injection injuries requintervention and possibly steroid the damage and loss of function. Because entry wounds are small and seriousness of the underlying damage determine the extent of involvement anaesthetics or hot soaks should be can contribute to swelling, vasospass surgical decompression, debridement foreign material should be performed anaesthetics, and wide exploration is	d do not reflect the ge, surgical exploration to may be necessary. Local avoided because they and ischaemia. Prompt nt and evacuation of d under general

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media	: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media 5.2 Special hazards arising from	: Do not use water in a jet. the substance or mixture

```
Specific hazards during
```

```
: Fire resistant fluid that is unlikely to burn without assistance
```

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firefighting 5.3 Advice for firefighters	from combustible materials.	
Special protective equipment for firefighters	: Proper protective equipment includin gloves are to be worn; chemical resis large contact with spilled product is e Breathing Apparatus must be worn w a confined space. Select fire fighter's relevant Standards (e.g. Europe: EN	stant suit is indicated if expected. Self-Contained when approaching a fire in s clothing approved to 1469).
Specific extinguishing methods	: Use extinguishing measures that are circumstances and the surrounding e	

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

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

Avoid contact with skin and eyes. 6.1.2 For emergency responders: Avoid contact with skin and eyes.	Personal precautions	0,1
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# 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.

Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: Slippery when spilt. Avoid accidents, clean up immediately.
	Prevent from spreading by making a barrier with sand, earth
	or other containment material.
	Reclaim liquid directly or in an absorbent.
	Soak up residue with an absorbent such as clay, sand or other
	suitable material and dispose of properly.

#### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

# **SECTION 7: Handling and storage**

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General Precautions	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.			
7.1 Precautions for safe handling	l			
Advice on safe handling	: Avoid prolonged or repeated contac Avoid inhaling vapour and/or mists. When handling product in drums, so worn and proper handling equipmen Properly dispose of any contaminat materials in order to prevent fires.	afety footwear should be nt should be used.		
7.2 Conditions for safe storage, including any incompatibilities				
Other data	: Keep container tightly closed and ir place. Use properly labeled and clo			
	Refer to section 15 for any addition covering the packaging and storage			
	The storage of this product may be Pollution (Oil Storage) (England) Re guidance may be obtained from the agency office.	egulations. Further		
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 r			
7.3 Specific end use(s)				
Specific use(s)	: Not applicable			

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

# 8.1 Control parameters

# **Occupational Exposure Limits**

# **Biological occupational exposure limits**

No biological limit allocated.

# **Monitoring Methods**

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workplace may be re For some substance Validated exposure i analysed by an accr Examples of sources the supplier. Further National Institute of http://www.cdc.gov/r Occupational Safety http://www.osha.gov Health and Safety E http://www.hse.gov.u Institut für Arbeitssch http://www.dguv.de/i	s of recommended exposure measurement method national methods may be available. Occupational Safety and Health (NIOSH), USA: Ma niosh/ and Health Administration (OSHA), USA: Sampling / xecutive (HSE), UK: Methods for the Determination uk/ nutz Deutschen Gesetzlichen Unfallversicherung (IF	equacy of exposure controls. apetent person and samples as are given below or contact anual of Analytical Methods g and Analytical Methods n of Hazardous Substances FA), Germany
8.2 Exposure controls		
upon potential exposi circumstances. Appr	uresThe level of protection and types of controls ne sure conditions. Select controls based on a risk ass ropriate measures include: to control airborne concentrations.	
Where material is he	eated, sprayed or mist formed, there is greater pote	ntial for airborne

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.

Hand protection

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sion 2.1	Revision Date 21.03.2016	Print Date 22.03.201
Remarks	: Where hand contact with the product gloves approved to relevant standar US: F739) made from the following re- suitable chemical protection. PVC, re- gloves Suitability and durability of a usage, e.g. frequency and duration of resistance of glove material, dexterint from glove suppliers. Contaminated replaced. Personal hygiene is a key care. Gloves must only be worn on of gloves, hands should be washed an Application of a non-perfumed moist	ds (e.g. Europe: EN374, materials may provide neoprene or nitrile rubber glove is dependent on of contact, chemical ty. Always seek advice gloves should be element of effective hand clean hands. After using id dried thoroughly.
	For continuous contact we recomme breakthrough time of more than 240 for > 480 minutes where suitable glo short-term/splash protection we reco recognize that suitable gloves offerin 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 g depending on the glove make and m	minutes with preference oves can be identified. For ommend the same, but ing this level of protection e a lower breakthrough appropriate maintenance ed. Glove thickness is not to a chemical as it is n of the glove material. greater than 0.35 mm
Skin and body protection	<ul> <li>Skin protection is not ordinarily requ work clothes.</li> <li>It is good practice to wear chemical</li> </ul>	-
Respiratory protection	<ul> <li>No respiratory protection is ordinarily conditions of use.</li> <li>In accordance with good industrial h precautions should be taken to avoid If engineering controls do not mainta concentrations to a level which is ad health, select respiratory protection specific conditions of use and meetin Check with respiratory protective eq Where air-filtering respirators are su appropriate combination of mask an Select a filter suitable for combined and vapours [Type A/Type P boiling meeting EN14387 and EN143.</li> </ul>	avgiene practices, d breathing of material. ain airborne lequate to protect worker equipment suitable for the ng relevant legislation. uipment suppliers. iitable, select an d filter. particulate/organic gases
Thermal hazards	: Not applicable	

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Hygiene measures	: Exposure to this product should be r reasonably practicable. Reference s Health and Safety Executive's public Essentials".	hould be made to the
Environmental exposure o	controls	
General advice	<ul> <li>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.</li> <li>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.</li> </ul>	

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

# 9.1 Information on basic physical and chemical properties

Appearance	Liquid a	t room temperature.
Colour	clear	
Odour	Slight h	ydrocarbon
Odour Threshold	Data no	t available
рН	Not app	licable
pour point	-36 °CN	lethod: ISO 3016
Initial boiling point and boiling range	> 280 °(	Cestimated value(s)
Flash point	320 °C Method	: ISO 2592
Evaporation rate	Data no	t available
Flammability (solid, gas)	Data no	t available
Upper explosion limit	Typical	10 %(V)
Lower explosion limit	Typical	1 %(V)
Vapour pressure		ed value(s)
Relative vapour density	> 1estin	nated value(s)

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Relative density	:	0.923 (20 °C)	
Density	:	923 kg/m3 (20 °C) Method: IP 365	
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			
Viscosity, dynamic	:	Data not available	
Viscosity, kinematic	:	48.7 mm2/s (40.0 °C) Method: ISO 3104	
		9.6 mm2/s (100 °C) Method: ISO 3104	
		1839 mm2/s (-20 °C) Method: ISO 3104	
Explosive properties	:	Not classified	
Oxidizing properties	:	Data not available	
9.2 Other information			
Conductivity	:	This material is not expected to be a stat	ic 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.

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No hazardous reaction is exp	pected when handled and stored according	to provisions
10.3 Possibility of hazardous re	actions	
Hazardous reactions	: Reacts with strong oxidising agents.	
10.4 Conditions to avoid		
Conditions to avoid	: Extremes of temperature and direct s	unlight.
10.5 Incompatible materials		
Materials to avoid	: Strong oxidising agents.	
10.6 Hazardous decomposition	products	
Hazardous decomposition	: Hazardous decomposition products a	ire not expected to form

during normal storage.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

products

	Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
	Information on likely routes of exposure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Αсι	ute toxicity		
	Product:		
	Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:
	Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
	Acute dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

#### Skin corrosion/irritation

# Product:

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

# Serious eye damage/eye irritation

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#### Product:

Remarks: Expected to be slightly irritating.

#### Respiratory or skin sensitisation

#### Product:

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

#### Germ cell mutagenicity

#### Product:

: Remarks: Not considered a mutagenic hazard.

# Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

# **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.

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#### Further information

#### Product:

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

Remarks: 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.

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

#### Summary on evaluation of the CMR properties

Germ cell mutagenicity- Assessment	his product does no tegories 1A/1B.	ot meet the criteria for classification in
Carcinogenicity - Assessment	nis product does no tegories 1A/1B.	ot meet the criteria for classification in
Reproductive toxicity - Assessment	iis product does no tegories 1A/1B.	ot meet the criteria for classification in

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

#### 12.1 Toxicity

Basis for assessment : Product:	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/I
Toxicity to crustacean (Acute : toxicity)	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

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Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be practically LL/EL/IL50 > 100 mg/l	non toxic:
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available	
Toxicity to crustacean (Chronic toxicity) Toxicity to microorganisms	: Remarks: Data not available	
(Acute toxicity)	Remarks: Data not available	

# 12.2 Persistence and degradability

Product:	
Biodegradability	: 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 potential	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on information on similar products)
12.4 Mobility in soil	
Product:	
Mobility	<ul> <li>Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.</li> </ul>
12.5 Results of PBT and vPvB as	ssessment
Product:	
Assessment	<ul> <li>This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.</li> </ul>
12.6 Other adverse effects	
Product:	
Additional ecological information	<ul> <li>Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities., Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.</li> <li>Poorly soluble mixture., May cause physical fouling of aquatic organisms.</li> </ul>

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#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	: 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 should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Waste catalogue	: EU Waste Disposal Code (EWC):
Waste Code	: 13 01 05*
Remarks	: Classification of waste is always the responsibility of the end user.

# **SECTION 14: Transport information**

14.1	UN number	
	ADR :	Not regulated as a dangerous good
		Not regulated as a dangerous good
		Not regulated as a dangerous good
	IATA :	Not regulated as a dangerous good
14.2	Proper shipping name	
	ADR :	Not regulated as a dangerous good
	RID :	Not regulated as a dangerous good
	IMDG :	Not regulated as a dangerous good
	IATA :	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
	IATA :	Not regulated as a dangerous good
14.4	Packing group	
	ADR :	Not regulated as a dangerous good
	RID :	Not regulated as a dangerous good

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IMDG IATA	<ul><li>Not regulated as a dangerous good</li><li>Not regulated as a dangerous good</li></ul>		
14.5 Environmental hazards			
ADR RID IMDG	<ul> <li>Not regulated as a dangerous good</li> <li>Not regulated as a dangerous good</li> <li>Not regulated as a dangerous good</li> </ul>		
14.6 Special precautions for use	r		
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 according to Annex II of MARPOL 73/78 and the IBC Code			
Pollution category Ship type Product name Special precautions	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
Additional Information	: 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 - List of substances subject to authorisation (Annex XIV)

: Product is not subject to Authorisation under REACH.

Volatile organic compounds : 0 %

Safety at Work etc. Act 1974. Consumers Protection A Pollution Prevention and Control Act 1999. Environme 1995. Factories Act 1961. The Carriage of Dangerous and Use of Transportable Pressure Equipment (Amen Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (a amended). Merchant Shipping (Dangerous Goods and Pollutants) Regulations 1997. Reporting of Injuries, Di and Dangerous Occurrences Regulations 1995 (as an Personal Protective Equipment Regulations 2002. Per Protective Equipment at Work Regulations 1992. Haza Waste (England and Wales) Regulations 2005(as ame Control of Major Accident Hazards Regulations 1999 ( amended). Renewable Transport Fuel Obligations Orco (as amended). Energy Act 2011. Environmental Permi (England and Wales) Regulations 2010 (as amended) (England and Wales) Regulations 2011 (as amended)
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	regulations. The Environmental Prote	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:			
EINECS TSCA	<ul><li>All components listed or polymer exer</li><li>All components listed.</li></ul>	npt.	
15.2 Chemical safety assessment			
No Chemical Safety A	ssessment has been carried out for this substance	e/mixture by the supplier.	

# **SECTION 16: Other information**

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Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		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 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

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	IARC = International Agency for F IATA = International Air Transport IC50 = Inhibitory Concentration fif IL50 = Inhibitory Level fifty IMDG = International Maritime Da INV = Chinese Chemicals Inventor IP346 = Institute of Petroleum te determination of polycyclic aroma KECI = Korea Existing Chemicals LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effectiv LL50 = Lethal Loading fifty MARPOL = International Convent Pollution From Ships NOEC/NOEL = No Observed Effec Observed Effect Level OE_HPV = Occupational Exposur PBT = Persistent, Bioaccumulativ PICCS = Philippine Inventory of C Substances PNEC = Predicted No Effect Cond REACH = Registration Evaluation Chemicals RID = Regulations Relating to Inte Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessmen TSCA = US Toxic Substances Co TWA = Time-Weighted Average vPvB = very Persistent and very E	t Association ty ingerous Goods ory ist method N° 346 for the tics DMSO-extractables Inventory we Loading/Inhibitory loading tion for the Prevention of ect Concentration / No re - High Production Volume e and Toxic Chemicals and Chemical centration a And Authorisation Of ernational Carriage of t ontrol Act
Further information		
Other information	<ul> <li>No Exposure Scenario annex is a sheet as it is a non-classified mixt substances.</li> <li>Under Article 31 of REACH, a SD product. Therefore, this SDS has basis to pass on potentially releva under Article 32.</li> </ul>	ture containing no hazardous S is not required for this been created on a voluntary ant information required
	A vertical bar ( ) in the left margin	indicates an amendment

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.

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