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

1.1 Product identifier

Trade name	:	Shell Spirax S4 TXM
Product code	:	001D8246

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

Use of the Substance/Mixture	Transmission oil.
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 (EC) No 1272/2008)		
Hazard pictograms	No Hazard Symbol required	
Signal word	No signal word	
Hazard statements	PHYSICAL HAZARDS: Not classified as a phys according to CLP criter	sical hazard

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		HEALTH HAZARDS Not classified as a h criteria. ENVIRONMENTAL Not classified as en according to CLP cr	health hazard under CLP HAZARDS: vironmental hazard
Precautionary statements	 Prevention: Response: Storage: Disposal: 	No precautionary pl No precautionary pl No precautionary pl No precautionary pl	nrases. nrases.
Sensitising components	: Contains bora May produce a	ted ester. an allergic reaction.	
2.3 Other hazards			

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

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.
	 * contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375- 34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01- 2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65- 0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01- 2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69- 9 (01-0000020163-82).

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION	[%]
	Registration	(EC) No	
	number	1272/2008)	

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Zinc dialkyldithiophosphate	4259-15-8 224-235-5	Eye Dam.1; H318 Aquatic Chronic2; H411	1 - 2.4	
Borated ester	84819-41-0 284-222-5	Skin Sens.1B; H317	0.1 - 0.9	
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Asp. Tox.1; H304	0 - 90	

For explanation of abbreviations see section 16.

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.
Protection of first-a	iders :	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 cont	tact :	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye cont	act :	Flush eye with copious quantities of water. 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 syr	mptoms and ef	ffects, both acute and delayed
Symptoms	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
4.3 Indication of any in	nmediate med	ical attention and special treatment needed
Treatment	:	Notes to doctor/physician: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media	: Foam, water spray or fog. Dry chemical dioxide, sand or earth may be used for s	
Unsuitable extinguishing media	: Do not use water in a jet.	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	 Hazardous combustion products may inc mixture of airborne solid and liquid partic (smoke). Carbon monoxide may be evol- combustion occurs. Unidentified organic compounds. 	ulates and gases ved if incomplete
5.3 Advice for firefighters		
Special protective equipment for firefighters	 Proper protective equipment including cl gloves are to be worn; chemical resistan large contact with spilled product is expe Breathing Apparatus must be worn when a confined space. Select fire fighter's clo relevant Standards (e.g. Europe: EN469 	t suit is indicated if ected. Self-Contained a approaching a fire in thing approved to
Specific extinguishing methods	: Use extinguishing measures that are app circumstances and the surrounding envir	propriate to local

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.

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
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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		
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		
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 materials in order to prevent fires. 	
Product Transfer	 This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. 	
7.2 Conditions for safe storage, ir	ncluding any incompatibilities	
Other data	: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.	
	Store at ambient temperature.	
	Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.	
	The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency office.	
Packaging material	: Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.	
Container Advice	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.	
7.3 Specific end use(s)		

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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		TWA	5 mg/m3	US. ACGIH Threshold Limit Values

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 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 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.

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Retain drain downs in sealed Always observe good person and before eating, drinking, a	quipment break-in or maintenance. I storage pending disposal or subsequent ial hygiene measures, such as washing h and/or smoking. Routinely wash work clo scard contaminated clothing and footwea	nands after handling the materi othing and protective equipmen
Personal protective equipn	nent	
	made in consideration of the PPE directiv Suropean Committee for Standardisation (
Personal protective equipme PPE suppliers.	ent (PPE) should meet recommended nat	ional standards. Check with
Eye protection	: If material is handled such that it con protective eyewear is recommende Approved to EU Standard EN166.	
Hand protection		
Remarks	: Where hand contact with the produ gloves approved to relevant standa US: F739) made from the following suitable chemical protection. PVC, gloves Suitability and durability of a usage, e.g. frequency and duration resistance of glove material, dexter from glove suppliers. Contaminated replaced. Personal hygiene is a key care. Gloves must only be worn on gloves, hands should be washed an Application of a non-perfumed mois	ards (e.g. Europe: EN374, materials may provide neoprene or nitrile rubber a glove is dependent on of contact, chemical rity. Always seek advice d gloves should be y element of effective hand clean hands. After using nd dried thoroughly.
	For continuous contact we recomm breakthrough time of more than 244 for > 480 minutes where suitable gl short-term/splash protection we recorrecognize that suitable gloves offer may not be available and in this cast time maybe acceptable so long as a and replacement regimes are follow a good predictor of glove resistance dependent on the exact compositio Glove thickness should be typically depending on the glove make and replacement regimes are follow	0 minutes with preference loves can be identified. For commend the same, but ing this level of protection se a lower breakthrough appropriate maintenance wed. Glove thickness is not e to a chemical as it is on of the glove material.
Skin and body protection	 Skin protection is not ordinarily requestion work clothes. It is good practice to wear chemical 	-

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Respiratory protection	 No respiratory protection is ordinar conditions of use. In accordance with good industrial precautions should be taken to avoid If engineering controls do not main concentrations to a level which is a health, select respiratory protection specific conditions of use and mee Check with respiratory protective e Where air-filtering respirators are s appropriate combination of mask a Select a filter suitable for combined and vapours [Type A/Type P boilin meeting EN14387 and EN143. 	hygiene practices, bid breathing of material. tain airborne adequate to protect worker n equipment suitable for the ting relevant legislation. equipment suppliers. suitable, select an and filter. d particulate/organic gases
Thermal hazards	: Not applicable	
Hygiene measures	: Exposure to this product should be reasonably practicable. Reference Health and Safety Executive's publ Essentials".	should be made to the
Environmental exposure cor	ntrols	
General advice	: Take appropriate measures to fulfil relevant environmental protection I contamination of the environment & Chapter 6. If necessary, prevent u being discharged to waste water. V treated in a municipal or industrial before discharge to surface water. Local guidelines on emission limits must be observed for the discharge vapour.	egislation. Avoid by following advice given in indissolved material from Vaste water should be waste water treatment plant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Liquid at room temperature.	
Colour	: amber	
Odour	: Slight hydrocarbon	
Odour Threshold	: Data not available	
рН	: Not applicable	
pour point	: -42 °CMethod: ISO 3016	

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Initial boiling point and boiling range	: > 280 °Cestimated value(s)	
Flash point	: 220 °C Method: ISO 2592	
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	: 0.882 (15 °C)	
Density	: 882 kg/m3 (15.0 °C) Method: ISO 12185	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information or	n similar products)
Auto-ignition temperature	: > 320 °C	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 60 mm2/s (40.0 °C) Method: ISO 3104	
	9.4 mm2/s (100 °C) Method: ISO 3104	
Explosive properties	: Not classified	

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9.2 Other information		
Conductivity Decomposition temperature	This material is not expected to be aData not available	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.
10.4 Conditions to avoid	
Conditions to avoid	: Extremes of temperature and direct sunlight.
10.5 Incompatible materials	
Materials to avoid	: Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition	:	Hazardous decomposition products are not expected to form
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 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	ite toxicity Product:		
			1050 rot > 5000 mg/kg
	Acute oral toxicity	•	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

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Acute inhalation toxicity	: Remarks: Not considered to be an in normal conditions of use.	halation hazard under
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxic	city:

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.

Components:

Zinc dialkyldithiophosphate:

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

Respiratory or skin sensitisation

Product:

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

Components:

Borated ester:

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.

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).

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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 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: 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 : This product does not meet the criteria for classification in categories 1A/1B.

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Carcinogenicity - Assessment	: This product does not meet the criter categories 1A/1B.	ia for classification in
Reproductive toxicity - Assessment	: This product does not meet the criter categories 1A/1B.	ia for classification in

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:

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

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Product:			
Bioaccumulation	: Remarks: Contains components wit bioaccumulate.	Remarks: Contains components with the potential to bioaccumulate.	
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on inform	Pow: > 6Remarks: (based on information on similar products)	
2.4 Mobility in soil			
Product:			
Mobility			
2.5 Results of PBT and vPvB a	assessment		
Product:			
Assessment	: This mixture does not contain any F substances that are assessed to be		
2.6 Other adverse effects			
Product:			
Additional ecological information	 Product is a mixture of non-volatile expected to be released to air in an Not expected to have ozone depleti photochemical ozone creation potential. Poorly soluble mixture., May cause organisms. Mineral oil is not expected to cause aquatic organisms at concentrations 	y significant quantities., on potential, ntial or global warming physical fouling of aquatic any chronic effects to	

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.
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Local legislation Waste catalogue	: EU Waste Disposal Code (EWC):		
Waste Code	: 13 02 05*		
Remarks	: Classification of waste is always the r user.	: 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
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
	: Not regulated as a dangerous good
14.2 Proper shipping name	
ADR	: Not regulated as a dangerous good
RID IMDG	 Not regulated as a dangerous good 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
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 user	
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 t	o Annex II of MARPOL 73/78 and the IBC Code
Pollution category	: Not applicable
	: Not applicable
	: Not applicable
Special precautions	: Not applicable
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.
15/18	800001005
19/10	800001005

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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 %

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

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

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

15.2 Chemical safety assessment

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

SECTION 16: Other information

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nents May be fatal if swallowed and enters airway May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects	-
breviations	
Chronic aquatic toxicity Aspiration hazard Serious eye damage Skin sensitisation cronyms : The standard abbreviations and a document can be looked up in ref scientific dictionaries) and/or web ACGIH = American Conference of Hygienists ADR = European Agreement com Carriage of Dangerous Goods by AICS = Australian Inventory of CH ASTM = American Society for Tes BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethy CAS = Chemical Abstracts Servic CEFIC = European Chemical Indu CLP = Classification Packaging a COC = Cleveland Open-Cup DIN = Deutsches Institut fur Norm DMEL = Derived Mo Effect Level DSL = Canada Domestic Substar EC = European Commission EC50 = Effective Concentration fi ECETOC = European Chemicals Ag EINECS = The European Invento Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and N Inventory EWC = European Waste Code GHS = Globally Harmonised Syst Labelling of Chemicals IARC = International Agency for F IATA = International Agency for F	ference literature (e.g. osites. of Governmental Industrial cerning the International Road hemical Substances sting and Materials (benzene, Xylenes ce ustry Council and Labelling hung evel hce List iffy Ecotoxicology and gency ory of Existing Commercial New Chemical Substances tem of Classification and Research on Cancer t Association fty angerous Goods
	ments May be fatal if swallowed and enters airwa May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects obreviations Chronic aquatic toxicity Aspiration hazard Serious eye damage Skin sensitisation cronyms The standard abbreviations and a document can be looked up in rescientific dictionaries) and/or web ACGIH = American Conference of Hygienists ADR = European Agreement con Carriage of Dangerous Goods by AICS = Australian Inventory of CI ASTM = American Society for Te BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethy CAS = Chemical Abstracts Servic CEFIC = European Chemical Ind CLP = Classification Packaging a COC = Cleveland Open-Cup DIN = Deutsches Institut fur Norn DMEL = Derived Minimal Effect L DNEL = Derived No Effect Level DSL = Canada Domestic Substat EC = European Chemicals ECHA = European Chemicals Ag EINECS = The European Inventor Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and N Inventory EWC = European Waste Code

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	LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading LL50 = Lethal Loading fifty MARPOL = International Convention for the Prevention of Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level OE_HPV = Occupational Exposure - High Production Volume PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemical Substances PNEC = Predicted No Effect Concentration REACH = Registration Evaluation And Authorisation Of Chemicals RID = Regulations Relating to International Carriage of Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative		
Further information			
Other information : No Exposure Scenario annex is attached to this satisfied mixture containing haza substances as detailed in Section 3; relevant inform Exposure Scenarios for the hazardous substances have been integrated into the core sections 1-16 of		ntaining hazardous elevant information from s substances contained	

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.