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

1.1 Product identifier

Trade name	:	AeroShell Fluid 31
Product code	:	001A0048

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

Use of the Substance/Mixture	Synthetic hydrocarbon hydraulic fluid for aircraft., For further details consult the AeroShell Book on www.shell.com/aviation.	
Uses advised against	This product must be used, handled and applied in accordance with the requirements of the equipment manufacturer's manuals, bulletins and other documentation. 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	: (+44) 08007318888
Telefax Email Contact for Safety Data	: If you have any enquiries about the content of this SDS
Sheet	please email lubricantSDS@shell.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard , Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms			
Signal word	: Danger		
Hazard statements	: H304		a physical hazard criteria.
	H412	airways. ENVIRONMENT/ Harmful to aquati effects.	AL HAZARDS: c life with long lasting
Precautionary statements	: Prevention P273 Response: P301 + P31	Avoid release to t IF SWALLOWED	: Immediately call a
	P331 Storage:	POISON CENTE Do NOT induce v	
	P405 Disposal:	Store locked up.	
	P501	Dispose of conter approved waste c	nts/ container to an lisposal plant.

Hazardous components which must be listed on the label: Contains low viscosity polyalphaolefins.

Sensitising components	:	
		Contains triazole derivatives.
		May produce an allergic reaction.

2.3 Other hazards

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

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.

Not classified as flammable but will burn.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Blend of polyolefins, synthetic esters and additives.

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Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Polyalphaolefin	68037-01-4	Asp. Tox.1; H304	60 - 80
Triphenylphosphate butylated (2.5-<25% TPP)	68937-40-6 273-065-8 / 01- 2119519251-50	Aquatic Acute1; H400 Aquatic Chronic1; H410	0.5 - 1
Triazole derivative	91273-04-0 401-280-0	Skin Corr.1B; H314 Aquatic Chronic1; H410 Skin Sens.1; H317	0.01 - 0.09

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-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. 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. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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4.2 Most important symptoms ar	nd effects, both acute and delayed	
Symptoms	 Oil acne/folliculitis signs and sympto of black pustules and spots on the s Ingestion may result in nausea, vom Local necrosis is evidenced by delay tissue damage a few hours following 	kin of exposed areas. iting and/or diarrhoea. yed onset of pain and
4.3 Indication of any immediate r	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, vasospase surgical decompression, debridement foreign material should be performed anaesthetics, and wide exploration in	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	:	Do not use water in a jet.
5.2	Special hazards arising from t	he	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 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 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.

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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 suitable material and dispose of properly.
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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.

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	Properly dispose of any contaminate materials in order to prevent fires.	d rags or cleaning
7.2 Conditions for safe storage, in	ncluding any incompatibilities	
Other data	: Keep container tightly closed and in place. Use properly labeled and clos	
Storage temperature	: -50 - 50 °C	
	Refer to section 15 for any additiona covering the packaging and storage	
	The storage of this product may be s Pollution (Oil Storage) (England) Reg guidance may be obtained from the l agency office.	gulations. Further
Packaging material	: Suitable material: For containers or or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not be temperatures because of possible rise	
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

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

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http://www.osha.gov	/	
Health and Safety E	xecutive (HSE), UK: Methods for the Determination	ion of Hazardous Substances
http://www.hse.gov.u		

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. 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	
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

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	replaced. Personal hygiene is a key care. Gloves must only be worn on gloves, hands should be washed ar Application of a non-perfumed mois	clean hands. After using nd dried thoroughly.
	For continuous contact we recomm breakthrough time of more than 240 for > 480 minutes where suitable gl short-term/splash protection we recorrecognize that suitable gloves offer 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 compositio Glove thickness should be typically depending on the glove make and r	D 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 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 required work clothes. It is good practice to wear chemical 	
Respiratory protection	: No respiratory protection is ordinari conditions of use. In accordance with good industrial I precautions should be taken to avo If engineering controls do not maint concentrations to a level which is a health, select respiratory protection specific conditions of use and meet Check with respiratory protective ed Where air-filtering respirators are st 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. ain airborne dequate to protect worker equipment suitable for the ing relevant legislation. quipment suppliers. uitable, select an hd filter. particulate/organic gases
Thermal hazards	: Not applicable	
Hygiene measures	: Exposure to this product should be reasonably practicable. Reference Health and Safety Executive's publi Essentials".	should be made to the
Environmental exposure c	ontrols	
General advice	: Take appropriate measures to fulfill relevant environmental protection le contamination of the environment b	egislation. Avoid

Act of other i hard of		
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	Chapter 6. If necessary, prevent un being discharged to waste water. We treated in a municipal or industrial w before discharge to surface water. Local guidelines on emission limits f must be observed for the discharge vapour.	aste water should be aste water treatment plant or volatile substances

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Liquid at room temperature.
Colour	:	red
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	<= -55 °CMethod: Unspecified
Initial boiling point and boiling range	:	> 280 °Cestimated value(s)
Flash point	:	237 °C Method: Unspecified
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	:	0.850 (15 °C)
Density	:	850 kg/m3 (15.0 °C) Method: Unspecified
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	Data not available

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Partition coefficient: n- octanol/water	: Pow: > 6(based on information on sir	nilar products)
Auto-ignition temperature	: > 320 °C	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 14.33 mm2/s (40.0 °C) Method: Unspecified	
	3.53 mm2/s (100 °C) Method: Unspecified	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
9.2 Other information		
Conductivity	: This material is not expected to be a	static accumulator.

0 0112201111	
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 Materials to avoid	: Strong oxidising agents.
10.6 Hazardous decomposition p	products
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal storage.
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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.
Acute toxicity		
Product:		
Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:
		Remarks: Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
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

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

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Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Material	GHS/CLP Carcinogenicity Classification	
Alkylphenol	No carcinogenicity classification.	
Triphenyl phosphate	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:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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.

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U	Remarks: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.		
U	Remarks: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.		
Remarks: Slightly irrit	Remarks: Slightly irritating to respiratory system.		
Remarks: Classification	Remarks: Classifications by other authorities under varying regulatory frameworks may exist.		
Summary on evaluat Germ cell mutagenicit Assessment	tion of the CMR properties y- : This product does not meet the categories 1A/1B.	criteria for classification in	
Carcinogenicity - Assessment	: This product does not meet the categories 1A/1B.	criteria for classification in	
Reproductive toxicity Assessment	This product does not meet the categories 1A/1B.	criteria 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 harmful: LL/EL/IL50 10-100 mg/I
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l
Toxicity to fish (Chronic toxicity)	:	Remarks: Data not available

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Toxicity to crustacean : (Chronic toxicity) Toxicity to microorganisms : (Acute toxicity)		Remarks: Data not available	
		Remarks: Data not available	
12.2 Persistence and degradabil	ity		
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 point bioaccumulate.	potential to
Partition coefficient: n- octanol/water	:	: Pow: > 6Remarks: (based on information on similar products)	
12.4 Mobility in soil			
Product:			
Mobility	:	 Remarks: Liquid 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 as	sse	ssment	
Product:			
Assessment	:	This mixture does not contain any REACH substances that are assessed to be a PB	
12.6 Other adverse effects			
Product:			
Additional ecological information	:	Product is a mixture of non-volatile compo expected to be released to air in any signi Not expected to have ozone depletion pot photochemical ozone creation potential or potential. Poorly soluble mixture., May cause physic organisms.	ficant quantities., ential, · global warming

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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 11*
Remarks	: Classification of waste is always the responsibility of the end user.
	Hazardous Waste (England and Wales) Regulations 2005.

SECTION 14: Transport information

14.1 UN number	
ADR RID	 Not regulated as a dangerous good Not regulated as a dangerous good
IMDG IATA	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good
14.2 Proper shipping name	
ADR RID	 Not regulated as a dangerous good Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA 14.3 Transport hazard class	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good

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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 us	er	
Remarks	 Special Precautions: Refer to Chapter for special precautions which a user ne needs to comply with in connection with 	eds to be aware of or
14.7 Transport in bulk accordin	g to Annex II of MARPOL 73/78 and the IB	C 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.

SECTION 15: Regulatory information

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

: Product is not subject to Authorisation under REACH.

REACH - List of substances subject to authorisation	
(Annex XIV)	

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

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	Waste (England and Wales) Regulat Control of Major Accident Hazards R amended). Renewable Transport Fu (as amended). Energy Act 2011. Env (England and Wales) Regulations 20 (England and Wales) Regulations 20 Planning (Hazardous Substances) A regulations. The Environmental Prote Ozone-Depleting Substances) Regul	egulations 1999 (as el Obligations Order 2007 vironmental Permitting 10 (as amended). Waste 11 (as amended). ct 1990 and associated ection (Controls on

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

EINECS	:	Not established.
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

REGULATION (EC) No 1272/2008	Classification procedure:
Aspiration hazard, Category 1, H304	Expert judgement and weight of evidence determination.
Chronic aquatic toxicity, Category 3, H412	Expert judgement and weight of evidence determination.

Full text of H-Statements

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Abbreviations and Acronyms : The standard abbreviations and acronyms document can be looked up in reference li scientific dictionaries) and/or websites. ACGIH = American Conference of Govern Hygienists ADR = European Agreement concerning to Carriage of Dangerous Goods by Road	
Hygienists ADR = European Agreement concerning t	
AICS = Australian Inventory of Chemical S ASTM = American Society for Testing and	the International Substances

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	BEL = Biological exposure limits	
	BTEX = Benzene, Toluene, Ethylber	vzene Xvlenes
	CAS = Chemical Abstracts Service	
	CEFIC = European Chemical Industr	y Council
	CLP = Classification Packaging and I	
	COC = Cleveland Open-Cup	0
	DIN = Deutsches Institut fur Normung	9
	DMEL = Derived Minimal Effect Leve	1
	DNEL = Derived No Effect Level	
	DSL = Canada Domestic Substance	List
	EC = European Commission	
	EC50 = Effective Concentration fifty	
		OC = European Center on Ecotoxicology and
	Toxicology Of Chemicals	
	ECHA = European Chemicals Agenc EINECS = The European Inventory o	
	Chemical Substances	I Existing Commercial
	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 Rese	earch on Cancer
	IATA = International Air Transport As	sociation
	IC50 = Inhibitory Concentration fifty	
	IL50 = Inhibitory Level fifty	
	IMDG = International Maritime Dange	erous Goods
	INV = Chinese Chemicals Inventory	
	IP346 = Institute of Petroleum test n	
	determination of polycyclic aromatics	
	KECI = Korea Existing Chemicals Inv LC50 = Lethal Concentration fifty	rentory
	LD50 = Lethal Concentration may LD50 = Lethal Dose fifty per cent.	
	LL/EL/IL = Lethal Loading/Effective L	oading/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 a	
	PICCS = Philippine Inventory of Cher	micals and Chemical
	Substances	
	PNEC = Predicted No Effect Concen	
	REACH = Registration Evaluation An	d Authorisation Of
	Chemicals	
	RID = Regulations Relating to Interna	ational Carriage of
	Dangerous Goods by Rail	
	SKIN_DES = Skin Designation	
	STEL = Short term exposure limit TRA = Targeted Risk Assessment	
	TSCA = US Toxic Substances Contro	al Act
	ISCA = US IOXIC SUBSTANCES CONTR	DI ACI

Activolicii i lulu 31		
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	TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative	
Further information		
Other information	: A vertical bar () in the left margin inc from the previous version.	dicates an amendment

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.