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

1.1 Product identifier

Trade name	:	AeroShell Fluid 41
Product code	:	001A0050

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

Use of the Substance/Mixture	:	Mineral hydraulic fluid for aircraft., For further details consult the AeroShell Book on www.shell.com/aviation.
Uses advised against	:	Not to be used as an engine lubricating oil., This product must not be used in systems incorporating natural rubber. 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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity , Category 4, Inhalation Skin irritation , Category 2 Aspiration hazard , Category 1 Chronic aquatic toxicity , Category 2 Classification (67/548/EEC, 1999/45/EC)	H332: Harmful if inhaled. H315: Causes skin irritation. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.
Xn: Harmful	R20: Harmful by inhalation.
Xi: Irritant	R38: Irritating to skin.

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N: Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms		! 🕹
Signal word	: Danger	
Hazard statements	: H332 H315 H304 H411	 PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP criteria. HEALTH HAZARDS: Harmful if inhaled. Causes skin irritation. May be fatal if swallowed and enters airways. ENVIRONMENTAL HAZARDS: Toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention:	
Frecautionary statements	Prevention. P261 P280	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/
	1200	eye protection/ face protection.
	Response:	
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P332 + P313	If skin irritation occurs: Get medical advice/ attention.
	Storage:	
	P405 Disposal:	Store locked up.
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Contains Gas oils (petroleum), hydrodesulphurised.

2.3 Other hazards

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

Used oil may contain harmful impurities.

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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

: 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. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Gas oils (petroleum), hydrodesulfurized	64742-79-6 265-182-8 / 01- 2119471311-49	Xn-N; R20-R38- R51/53-R65	Asp. Tox.1; H304 Acute Tox.4; H332 Skin Irrit.2; H315 Aquatic Chronic2; H411	80 - 90
Butylated hydroxytoluene	128-37-0 204-881-4 / 01- 2119565113-46	N; R50/53	Aquatic Chronic1; H410 Aquatic Acute1; H400	0.1 - 0.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	When administering first aid, ensure that you ar appropriate personal protective equipment acco incident, injury and surroundings.	
If inhaled	Remove to fresh air. Do not attempt to rescue to unless proper respiratory protection is worn. If to difficulty breathing or tightness of the chest, is of or unresponsive, give 100% oxygen with rescue CPR as required and transport to the nearest m	he victim has lizzy, vomiting, e breathing or
In case of skin contact	Remove contaminated clothing. Immediately flu large amounts of water for at least 15 minutes, washing with soap and water if available. If redu pain and/or blisters occur, transport to the near facility for additional treatment. When using high pressure equipment, injection under the skin can occur. If high pressure injuric casualty should be sent immediately to a hospit	and follow by ness, swelling, est medical of product es occur, the

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	for symptoms to develop. Obtain medical attention even in the wounds.	absence of apparent
In case of eye contact	: Flush eye with copious quantities of If persistent irritation occurs, obtain n	
If swallowed	: If swallowed, do not induce vomiting: medical facility for additional treatme spontaneously, keep head below hip If any of the following delayed signs a within the next 6 hours, transport to t facility: fever greater than 101° F (38 breath, chest congestion or continue	nt. If vomiting occurs s to prevent aspiration. and symptoms appear he nearest medical .3°C), shortness of
4.2 Most important symptoms	and effects, both acute and delayed	
Symptoms	 If material enters lungs, signs and sy coughing, choking, wheezing, difficul congestion, shortness of breath, and The onset of respiratory symptoms m several hours after exposure. Skin irritation signs and symptoms m sensation, redness, swelling, and/or Defatting dermatitis signs and symptourning sensation and/or a dried/crace Ingestion may result in nausea, vomi 	ity in breathing, chest /or fever. hay be delayed for hay include a burning blisters. oms may include a cked appearance. iting and/or diarrhoea.
	tissue damage a few hours following	
4.3 Indication of any immediat	e medical attention and special treatmen	t needed
Treatment	: Notes to doctor/physician: Treat symptomatically. Call a doctor or poison control center	for guidance.
	High pressure injection injuries requi intervention an d possibly steroid the damage and loss of function. Because entry wounds are small and seriousness of the underlying damag 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 is	do not reflect the ge, surgical exploration to may be necessary. Local avoided because they m and ischaemia. Prompt and evacuation of d under general

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5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	 Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. 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 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.

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

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up	: Slippery when spilt. Avoid accid Prevent from spreading by mak or other containment material. Reclaim liquid directly or in an a Soak up residue with an absorb suitable material and dispose of	ing a barrier with sand, earth absorbent. ent such as clay, sand or other

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	3
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, i	ncluding any incompatibilities
Other data	: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Must be stored in a diked (bunded) area.
Storage temperature	: -50 - 50 °C
	Storage 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.

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Packaging material	: Suitable material: For containers or co steel or high density polyethylene. Unsuitable material: PVC.	ontainer linings, use mild
Container Advice	: Polyethylene containers should not be temperatures because of possible risk	

7.3 Specific end use(s)

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

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circumstances. Appropri	conditions. Select controls based on a risk a ate measures include: control airborne concentrations.	ssessment of local
Where material is heater concentrations to be ger	d, sprayed or mist formed, there is greater ponerated.	tential for airborne
Educate and train worke associated with this proc Ensure appropriate sele personal protective equi Drain down system prior Retain drain downs in se Always observe good pe and before eating, drinki to remove contaminants Practice good housekee	ction, testing and maintenance of equipment pment, local exhaust ventilation. to equipment break-in or maintenance. ealed storage pending disposal or subsequent ersonal hygiene measures, such as washing l ng, and/or smoking. Routinely wash work clo Discard contaminated clothing and footweat	used to control exposure, e.g. It recycle. hands after handling the mater othing and protective equipmen
Personal protective eq	uipment	
	n is made in consideration of the PPE directive EN European Committee for Standardisation	
Personal protective equ PPE suppliers.	ipment (PPE) should meet recommended na	tional standards. Check with
Eye protection	: If material is handled such that it of protective eyewear is recommended Approved to EU Standard EN166.	
Hand protection		
Remarks	: Where hand contact with the product gloves approved to relevant standar 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, dexte from glove suppliers. Contaminate replaced. Personal hygiene is a ke care. Gloves must only be worn or gloves, hands should be washed a Application of a non-perfumed moi	ards (e.g. Europe: EN374, g materials may provide neoprene or nitrile rubber a glove is dependent on of contact, chemical rity. Always seek advice d gloves should be ey element of effective hand of clean hands. After using and dried thoroughly.
	For continuous contact we recomn breakthrough time of more than 24 for > 480 minutes where suitable g	0 minutes with preference

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recognize that suitable gloves off may not be available and in this of time maybe acceptable so long a and replacement regimes are foll a good predictor of glove resistar dependent on the exact composit Glove thickness should be typica depending on the glove make an	case a lower breakthrough is appropriate maintenance lowed. Glove thickness is not note to a chemical as it is tion of the glove material. Ily greater than 0.35 mm
: Wear chemical resistant gloves/g risk of splashing, also wear an ap	
: No respiratory protection is ordina conditions of use. In accordance with good industria precautions should be taken to a If engineering controls do not ma concentrations to a level which is health, select respiratory protective specific conditions of use and me Check with respiratory protective Where air-filtering respirators are appropriate combination of mask Select a filter suitable for combine and vapors [Type A/Type P boilin meeting EN14387 and EN143.	al hygiene practices, void breathing of material. intain airborne a adequate to protect worker on equipment suitable for the beting relevant legislation. equipment suppliers. a suitable, select an and filter. ed particulate/organic gases
: Not applicable	
: Exposure to this product should by reasonably practicable. Reference Health and Safety Executive's put Essentials".	e should be made to the
ntrols	
: Take appropriate measures to ful relevant environmental protection contamination of the environmen Chapter 6. If necessary, prevent being discharged to waste water. treated in a municipal or industria before discharge to surface wate Local guidelines on emission limi must be observed for the dischar vapour.	n legislation. Avoid t by following advice given in undissolved material from Waste water should be al waste water treatment plant r. ts for volatile substances
	 recognize that suitable gloves off may not be available and in this of time maybe acceptable so long a and replacement regimes are foll a good predictor of glove resistar dependent on the exact composi Glove thickness should be typical depending on the glove make an Wear chemical resistant gloves/grisk of splashing, also wear an approximation of use. In accordance with good industriations of use and me Check with respiratory protection is bealth, select respiratory protective Where air-filtering respirators are appropriate combination of mask Select a filter suitable for combin and vapors [Type A/Type P boiling meeting EN14387 and EN143. Not applicable Exposure to this product should I reasonably practicable. Reference Health and Safety Executive's put Essentials".

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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	: < -60 °CMethod: Unspecified
Initial boiling point and boiling range	: > 280 °Cestimated value(s)
Flash point	: 105 °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	: 0.870 (15 °C)
Density	: 870 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	: 14.1 mm2/s (40.0 °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	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		
Materials to avoid	:	Strong oxidising agents.
10.6 Hazardous decomposition pro	oc	lucts
Hazardous decomposition products	:	Hazardous decomposition products are not expected to form 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
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	whole, rather than for individual compo	nent(s).
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:
	Remarks: Aspiration into the lungs may pneumonitis which can be fatal.	/ cause chemical
Acute inhalation toxicity	: LC 50 Rat: > 1 - < 5 mg/l Exposure time: 4 h Remarks: Harmful if inhaled.	
Acute dermal toxicity	: LD 50 Rabbit: > 2,000 - < 5,000 mg/kg Remarks: May be harmful in contact w	ith skin.

Skin corrosion/irritation

Product:

Remarks: Causes skin irritation.

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

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
Gas oils (petroleum), hydrodesulfurized	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.

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

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Remarks: Slightly irritating to respiratory system.

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

Summary on evaluation of th 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 toxic: LL/EL/IL50 > 1 <= 10 mg/l
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be toxic: LL/EL/IL50 > 1 <= 10 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

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<u>Components:</u> Butylated hydroxytoluene :		
M-Factor (Acute aquatic toxicity)	: 1	
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 constituents with bioaccumulate.	n the potential to
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on inform	nation 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 ass	essment	
Product:		
Assessment	: This mixture does not contain any R substances that are assessed to be	
12.6 Other adverse effects		
Product:		
Additional ecological information	 Product is a mixture of non-volatile of expected to be released to air in any Not expected to have ozone depletion photochemical ozone creation poter 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

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Product	It is the re toxicity an determine methods i	 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 		
Contaminated packaging	to a recog the collect Disposal s	: 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	e Disposal Code (EWC):		
Waste Code	: 13 01 10*			
Remarks	national, a	should be in accordance w and local laws and regulati tion of waste is always the	ions.	
	Hazardou	s Waste (England and Wa	ales) Regulations 2005.	

SECTION 14: Transport information

14.1 UN number	
ADR RID IMDG IATA	: 3082 : 3082 : 3082 : 3082
14.2 Proper shipping name	. 0002
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
RID	 (Gas oils, (petroleum), hydrodesulphurised) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gas oils, (petroleum), hydrodesulphurised)
	(Gas oils, (petroleum), hydrodesulphurised)

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IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(Gas oils, (petroleum), hydrodes	sulphurised)
ΙΑΤΑ	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gas oils, (petroleum), hydrodesulphurised)	
14.3 Transport hazard class	(eac e, (per creating), try are act	
ADR	: 9	
RID	: 9	
IMDG	: 9	
ΙΑΤΑ	: 9	
14.4 Packing group		
ADR		
Packing group	: 111	
Classification Code	: M6	
Hazard Identification Number Labels	: 90 : 9	
RID	. 5	
Packing group	: 111	
Classification Code	: M6	
Hazard Identification Number	: 90	
Labels	: 9	
IMDG		
Packing group	: 111	
Labels	: 9	
ΙΑΤΑ		
Packing group	: 111	
Labels	: 9MI	
14.5 Environmental hazards		
ADR		
Environmentally hazardous	: yes	
RID	,	
Environmentally hazardous	: yes	
IMDG	-	
Marine pollutant	: yes	
·	. 903	
14.6 Special precautions for user		
Remarks	: Special Precautions: Refer to C for special precautions which a needs to comply with in connect	user needs to be aware of or
14.7 Transport in bulk according	o Annex II of MARPOL 73/78 and	I 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	or bulk shipments by sea.
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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

REGULATION (EC) No 1272/2008 Acute toxicity, Category 4, H332 Classification procedure: Expert judgement and weight of evidence determination.

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Skin irritation, Categ	ory 2, H315	Expert judgement and w determination.	eight of evidence
Aspiration hazard, C	ategory 1, H304	Expert judgement and w determination.	eight of evidence
Chronic aquatic toxic H411	city, Category 2,	Expert judgement and w determination.	eight of evidence
Full text of R-Phras	ies		
R20	Harmful by inhal	ation.	
R38	Irritating to skin.		
R50/53	Very toxic to aqu the aquatic envir	iatic organisms, may cause le onment.	ong-term adverse effects in
R51/53		organisms, may cause long-	term adverse effects in the
R65		use lung damage if swallowe	ed.
Full text of H-State			
H304		vallowed and enters airways	
H315	Causes skin irrita		
H332	Harmful if inhale		
H400	Very toxic to aqu		
H410		atic life with long lasting effe	CtS.
H411	I oxic to aquatic	life with long lasting effects.	
Full text of other ab	breviations		
Acute Tox.	Acute toxicity		
Aquatic Acute	Acute aquatic to:	xicity	
Aquatic Chronic	Chronic aquatic		
Asp. Tox.	Aspiration hazar		
Skin Irrit.	Skin irritation		
Abbreviations and A	docum	andard abbreviations and acr ent can be looked up in refer ic dictionaries) and/or websit	ence literature (e.g.
	Hygien	I = American Conference of (iists	
	ADR =	European Agreement conce	rning the International
	Carriag	ge of Dangerous Goods by R	oad
		- Australian Inventory of Che	
		= American Society for Testi	ng and Materials
		Biological exposure limits	
		 Benzene, Toluene, Ethylbe 	enzene, Xylenes
		Chemical Abstracts Service	
		= European Chemical Indus	
		Classification Packaging and	l Labelling
	- 200	Cleveland Open-Cup	
			na
	DIN = I	Deutsches Institut fur Normu	
	DIN = I DMEL	= Derived Minimal Effect Lev	
	DIN = I DMEL DNEL	 Derived Minimal Effect Lev Derived No Effect Level 	vel
	DIN = I DMEL DNEL = DSL =	= Derived Minimal Effect Lev = Derived No Effect Level Canada Domestic Substance	vel
	DIN = I DMEL DNEL = DSL = EC = E	= Derived Minimal Effect Lev = Derived No Effect Level Canada Domestic Substance European Commission	rel e List
	DIN = 1 DMEL DNEL = DSL = EC = E EC50 =	= Derived Minimal Effect Lev = Derived No Effect Level Canada Domestic Substance	rel e List /

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	Toxicology Of Chemicals	
	ECHA = European Chemicals Ag EINECS = The European Invento Chemical Substances	
	EL50 = Effective Loading fifty ENCS = Japanese Existing and N Inventory	New Chemical Substances
	EWC = European Waste Code GHS = Globally Harmonised Sys	tem of Classification and
	Labelling of Chemicals IARC = International Agency for I IATA = International Air Transpor	
	IC50 = Inhibitory Concentration fi IL50 = Inhibitory Level fifty	fty
	IMDG = International Maritime Da INV = Chinese Chemicals Invento IP346 = Institute of Petroleum te	ory
	determination of polycyclic aroma KECI = Korea Existing Chemicals	atics DMSO-extractables
	LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent LL/EL/IL = Lethal Loading/Effecti	
	LL50 = Lethal Loading fifty MARPOL = International Conven	
	Pollution From Ships NOEC/NOEL = No Observed Effe Observed Effect Level	ect Concentration / No
	OE_HPV = Occupational Exposu PBT = Persistent, Bioaccumulativ	ve and Toxic
	PICCS = Philippine Inventory of (Substances PNEC = Predicted No Effect Con	
	REACH = Registration Evaluation Chemicals	n And Authorisation Of
	RID = Regulations Relating to Int Dangerous Goods by Rail SKIN_DES = Skin Designation	ernational Carriage of
	STEL = Short term exposure limi TRA = Targeted Risk Assessmer	nt
	TSCA = US Toxic Substances Co TWA = Time-Weighted Average vPvB = very Persistent and very	
Further information		
Other information	: A vertical bar () in the left margin from the previous version.	n indicates an amendment
	This product is classified as R65 damage if swallowed) respective swallowed and enters airways). T aspiration. The risk arising from a related to the physico-chemical p	ly H304 (May be fatal if The risk relates to potential for

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The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard. An exposure scenario is not presented.

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.