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

#### 1.1 Product identifier

Trade name	:	Shell Morlina S4 B 460
Product code	:	001F2647

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

Use of the Substance/Mixture	:	Machine 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	<ul> <li>Shell UK Oil Products Limited</li> <li>Shell Centre</li> <li>London</li> <li>SE1 7NA</li> <li>United Kingdom</li> </ul>
Telephone Telefax Email Contact for Safety Data Sheet	<ul> <li>: (+44) 08007318888</li> <li>: If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com</li> </ul>

# 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)

Not a hazardous substance or mixture.

# 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	No Hazard Symbo	I required
Signal word	:	No signal word	
Hazard statements	:		PHYSICAL HAZARDS: Not classified as a physical hazard

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		according to CLP cri HEALTH HAZARDS Not classified as a h criteria. ENVIRONMENTAL Not classified as env according to CLP cri	: ealth hazard under CLP HAZARDS: ⁄ironmental hazard
Precautionary statements	<ul> <li>Prevention:</li> <li>Response:</li> <li>Storage:</li> <li>Disposal:</li> </ul>	No precautionary ph No precautionary ph No precautionary ph No precautionary ph	rases. rases.
Sensitising components		yl thiophosphate 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 : Blend of polyolefins and additives.

# Hazardous components

Chemical name	CAS-No. EC-No. Registration	Classification (REGULATION (EC) No	Concentration [%]
Dialkyl thiophosphate ester	number 268567-32-4 434-070-2	1272/2008) Skin Sens.1B; H317 Eye Dam.1; H318 Aquatic Chronic3; H412	0.1 - 0.99

For explanation of abbreviations see section 16.

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# SECTION 4: First aid measures 4.1 Description of first aid measures General advice : Not expected to be a health hazard when used under normal conditions. : When administering first aid, ensure that you are wearing the Protection of first-aiders appropriate personal protective equipment according to the incident, injury and surroundings. If inhaled : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice. In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. : Flush eye with copious quantities of water. In case of eye contact If persistent irritation occurs, obtain medical attention. If swallowed : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. 4.2 Most important symptoms and effects, both acute and delayed : Oil acne/folliculitis signs and symptoms may include formation Symptoms of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Notes to doctor/physician: Treat symptomatically.

# **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. 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.

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5.3 Advice for firefighters		
Special protective equipment for firefighters	: Proper protective equipment including gloves are to be worn; chemical resonance contact with spilled product is Breathing Apparatus must be worn a confined space. Select fire fighter relevant Standards (e.g. Europe: E	sistant suit is indicated if expected. Self-Contained when approaching a fire in 's clothing approved to N469).
Specific extinguishing methods	: Use extinguishing measures that ar circumstances and the surrounding	

# **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.

#### 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

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		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	g			
Advice on safe handling	:	Avoid prolonged or repeated contact Avoid inhaling vapour and/or mists. When handling product in drums, sat worn and proper handling equipmer Properly dispose of any contaminate materials in order to prevent fires.	afety footwear should be ht should be used.	
Product Transfer	:	<ul> <li>This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.</li> </ul>		
7.2 Conditions for safe storage, including any incompatibilities				
Other data	:	Keep container tightly closed and in place. Use properly labeled and closed a		
		Store at ambient temperature.		
		Refer to section 15 for any additiona covering the packaging and storage		
		The storage of this product may be Pollution (Oil Storage) (England) Re guidance may be obtained from the agency office.	egulations. Further	
Packaging material	:	Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild	
Container Advice	:	Polyethylene containers should not temperatures because of possible ri		
7.3 Specific end use(s)				
Specific use(s)	:	Not applicable		

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

# 8.1 Control parameters

# **Occupational Exposure Limits**

# SAFETY DATA SHEET Regulation 1907/2006/EC Shell Morlina S4 B 460

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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. 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

# SAFETY DATA SHEET Regulation 1907/2006/EC Shell Morlina S4 B 460

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	made in consideration of the PPE directive European Committee for Standardisation (	
Personal protective equipm PPE suppliers.	ent (PPE) should meet recommended nation	onal standards. Check with
Eye protection	: If material is handled such that it co 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, r gloves Suitability and durability of a usage, e.g. frequency and duration resistance of glove material, dexteri 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	rds (e.g. Europe: EN374, materials may provide neoprene or nitrile rubber glove is dependent on of contact, chemical ty. Always seek advice gloves should be element of effective hand clean hands. After using ad dried thoroughly.
	For continuous contact we recomme breakthrough time of more than 240 for > 480 minutes where suitable glo short-term/splash protection we reco recognize that suitable gloves offeri may not be available and in this cas time maybe acceptable so long as a and replacement regimes are follow a good predictor of glove resistance dependent on the exact composition Glove thickness should be typically depending on the glove make and n	o minutes with preference by scan be identified. For commend the same, but ing this level of protection appropriate maintenance red. Glove thickness is not to a chemical as it is n of the glove material. greater than 0.35 mm
Skin and body protection	<ul> <li>Skin protection is not ordinarily required work clothes.</li> <li>It is good practice to wear chemical</li> </ul>	-
Respiratory protection	<ul> <li>No respiratory protection is ordinaril conditions of use.</li> <li>In accordance with good industrial h precautions should be taken to avoi If engineering controls do not mainta concentrations to a level which is ac health, select respiratory protection specific conditions of use and meeti</li> </ul>	nygiene practices, d breathing of material. ain airborne dequate to protect worker equipment suitable for the

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	Check with respiratory protective equivalent where air-filtering respirators are sub- appropriate combination of mask and Select a filter suitable for combined p and vapours [Type A/Type P boiling meeting EN14387 and EN143.	itable, select an d filter. particulate/organic gases
Thermal hazards	: Not applicable	
Hygiene measures	: Exposure to this product should be r reasonably practicable. Reference sh Health and Safety Executive's public Essentials".	hould be made to the
Environmental exposure cor	ntrols	
General advice	<ul> <li>Take appropriate measures to fulfill the relevant environmental protection legs contamination of the environment by Chapter 6. If necessary, prevent under being discharged to waste water. Was treated in a municipal or industrial was before discharge to surface water. Local guidelines on emission limits for must be observed for the discharge of vapour.</li> </ul>	gislation. Avoid following advice given in dissolved material from 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	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-36 °CMethod: ASTM D97
Initial boiling point and boiling range	:	> 280 °Cestimated value(s)
Flash point	:	280 °C Method: ASTM D92
Evaporation rate	:	Data not available

# SAFETY DATA SHEET Regulation 1907/2006/EC Shell Morlina S4 B 460

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       :> 0.855 (15 °C)         Density       :< 855 kg/m3 (15.0 °C) Method: ASTM D4052         Solubility(ies)       :         Water solubility       :         Partition coefficient: n- octanol/water       :         Auto-ignition temperature       :         Solubility       :         Viscosity       Viscosity, dynamic         Viscosity, kinematic       :         Data not available         Viscosity, kinematic       :         Los or C       :         Los or C         Viscosity, kinematic       :         Viscosity, kinematic       :         Data not available         Viscosity, kinematic       :         Data not available         Viscosity, kinematic       :         Los or C       :         Los or C       :         Los or C       :         Relative density       :     <	Version 1.2	Revision Date 03.02.2016	Print Date 04.02.2016
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: > 1 estimated value(s)Relative density: > 1 estimated value(s)Relative density: 0.855 (15 °C)Density: 855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies):Water solubility: negligibleSolubility in other solvents: Data not availablePartition coefficient: n- octanol/water: Pow: > 6(based on information on similar products) a20 °CViscosity: >			
Lower explosion limit:Typical 1 %(V)Vapour pressure:< 0.5 Pa (20 °C) estimated value(s)Relative vapour density:> 1estimated value(s)Relative density:> 1estimated value(s)Relative density:> 1estimated value(s)Density:0.855 (15 °C)Density:855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies)::Water solubility:negligibleSolubility in other solvents:Data not availablePartition coefficient: n- octanol/water:Pow: > 6(based on information on similar products) octanol/waterAuto-ignition temperature:> 320 °CViscosity:Data not available			
Vapour pressure:< 0.5 Pa (20 °C) estimated value(s)Relative vapour density:> 1estimated value(s)Relative density:0.855 (15 °C)Density:855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies):negligibleWater solubility:negligibleSolubility in other solvents:Data not availablePartition coefficient: n- octanol/water:Pow: > 6(based on information on similar products) a20 °CViscosity:>Viscosity:Data not available	Upper explosion limit	: Typical 10 %(V)	
Relative vapour density:> 1estimated value(s)Relative density:0.855 (15 °C)Density:855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies):855 kg/m3 (15.0 °C) Method: ASTM D4052Vater solubility:negligible Data not availableSolubility in other solvents:Data not availablePartition coefficient: n- octanol/water:Pow: > 6(based on information on similar products) 320 °CViscosity:>Viscosity:Data not availableViscosity:Data not available	Lower explosion limit	: Typical 1 %(V)	
Relative density:0.855 (15 °C)Density:855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies):negligibleWater solubility:negligibleSolubility in other solvents:Data not availablePartition coefficient: n- octanol/water:Pow: > 6(based on information on similar products) 320 °CViscosity:Data not availableViscosity, dynamic:Data not available	Vapour pressure		
Density:855 kg/m3 (15.0 °C) Method: ASTM D4052Solubility(ies):negligibleWater solubility:negligibleSolubility in other solvents:Data not availablePartition coefficient: n- octanol/water:Pow: > 6(based on information on similar products)Auto-ignition temperature:>Xiscosity:Data not availableViscosity:>Viscosity, dynamic:Data not available	Relative vapour density	: > 1estimated value(s)	
Method: ASTM D4052         Solubility(ies)         Water solubility       : negligible         Solubility in other solvents       : Data not available         Partition coefficient: n- octanol/water       : Pow: > 6(based on information on similar products)         Auto-ignition temperature       : > 320 °C         Viscosity       Viscosity, dynamic         Viscosity, dynamic       : Data not available	Relative density	: 0.855 (15 °C)	
Water solubility: negligibleSolubility in other solvents: Data not availablePartition coefficient: n- octanol/water: Pow: > 6(based on information on similar products)Auto-ignition temperature: > 320 °CViscosity Viscosity, dynamic: Data not available	Density		
Solubility in other solvents       : Data not available         Partition coefficient: n- octanol/water       : Pow: > 6(based on information on similar products)         Auto-ignition temperature       : > 320 °C         Viscosity       Viscosity, dynamic         Viscosity, dynamic       : Data not available	Solubility(ies)		
Partition coefficient: n- octanol/water: Pow: > 6(based on information on similar products)Auto-ignition temperature: > 320 °CViscosity: Data not available	Water solubility	: negligible	
octanol/water Auto-ignition temperature : > 320 °C Viscosity Viscosity, dynamic : Data not available	Solubility in other solvents	: Data not available	
320 °C         Viscosity         Viscosity, dynamic         :       Data not available		: Pow: > 6(based on information on simila	ır products)
Viscosity, dynamic : Data not available	Auto-ignition temperature		
	Viscosity		
Viscosity, kinematic : 460 mm2/sMethod: ASTM D445	Viscosity, dynamic	: Data not available	
	Viscosity, kinematic	: 460 mm2/sMethod: ASTM D445	
Explosive properties : Not classified	Explosive properties	: Not classified	
Oxidizing properties : Data not available	Oxidizing properties	: Data not available	
9.2 Other information	9.2 Other information		
Conductivity : This material is not expected to be a static accumulator.	Conductivity	: This material is not expected to be a sta	tic accumulator.
Decomposition temperature : Data not available	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.

# Version 1.2 Revision Date 03.02.2016 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.		
<b>10.4 Conditions to avoid</b> 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.
Αςι	ite toxicity		
	Product:		
	Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:
	Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
	Acute dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

# Skin corrosion/irritation

# Product:

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

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#### Serious eye damage/eye irritation

# Product:

Remarks: Expected to be slightly irritating.

# Respiratory or skin sensitisation

# Product:

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

#### **Components:**

**Dialkyl thiophosphate 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.

Material	GHS/CLP Carcinogenicity Classification	
Dialkyl thiophosphate ester	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.

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#### 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.
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	<ul> <li>Ecotoxicological data have not been determined specifically for this product.</li> <li>Information given is based on a knowledge of the components and the ecotoxicology of similar products.</li> <li>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).</li> </ul>

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Product:		
Toxicity to fish (Acute toxicity)	: Remarks: Expected to be practically LL/EL/IL50 > 100 mg/l	non toxic:
Toxicity to crustacean (Acute toxicity)	: Remarks: Expected to be practically LL/EL/IL50 > 100 mg/l	non toxic:
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be practically LL/EL/IL50 > 100 mg/l	non toxic:
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available	
Toxicity to crustacean (Chronic toxicity)	: 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		
	Product:		
	Bioaccumulation	:	Remarks: Contains components with the potential to bioaccumulate.
	Partition coefficient: n- octanol/water	:	Pow: > 6Remarks: (based on information on similar products)
12.4	Mobility in soil		
	Product:		
	Mobility	:	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	es	ssment
	Product:		
	ssessment : This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.		
12.6	Other adverse effects		
	Product:		
	Additional ecological	:	Product is a mixture of non-volatile components, which are not
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expected to be released to air in any Not expected to have ozone depletic photochemical ozone creation poter potential. Poorly soluble mixture., May cause organisms.	on potential, ntial or global warming
	expected to be released to air in an Not expected to have ozone depleti photochemical ozone creation poter potential. Poorly soluble mixture., May cause

# **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 02 06*	
Remarks	: Classification of waste is always the responsibility of the end user.	

# **SECTION 14: Transport information**

14.1 UN number	
ADR RID IMDG	<ul> <li>Not regulated as a dangerous good</li> <li>Not regulated as a dangerous good</li> <li>Not regulated as a dangerous good</li> </ul>
ΙΑΤΑ	: Not regulated as a dangerous good
14.2 Proper shipping name	
ADR RID IMDG IATA	<ul> <li>Not regulated as a dangerous good</li> </ul>
14.3 Transport hazard class	

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ADR	: Not regulated as a dangerous good	
RID	: Not regulated as a dangerous good	
IMDG	: Not regulated as a dangerous good	
ΙΑΤΑ	: Not regulated as a dangerous good	
14.4 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	<ul> <li>Special Precautions: Refer to Chapter for special precautions which a user ne needs to comply with in connection with</li> </ul>	eds to be aware of or
14.7 Transport in bulk accordin	ng 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

. I Salety, health and environm	ientai regulations/legislati	ion specific for the substance of mixtu
REACH - List of substances s (Annex XIV)	ubject to authorisation	: Product is not subject to Authorisation under REACH.
Volatile organic compounds	: 0%	
Other regulations	Safety at Work etc. Act Pollution Prevention ar 1995. Factories Act 19 and Use of Transporta Regulations 2011. Che Packaging for Supply) Substances Hazardous	on Act 1990 (as amended). Health and t 1974. Consumers Protection Act 1987. ad Control Act 1999. Environment Act 61. The Carriage of Dangerous Goods ble Pressure Equipment (Amendment) emicals (Hazard Information and Regulations 2009. Control of s to Health Regulations 2002 (as chipping (Dangerous Goods and Marine

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	Protective Equipment at Work Regu Waste (England and Wales) Regula Control of Major Accident Hazards F amended). Renewable Transport Fu (as amended). Energy Act 2011. En (England and Wales) Regulations 20 (England and Wales) Regulations 20 Planning (Hazardous Substances) A regulations. The Environmental Prot Ozone-Depleting Substances) Regu	tions 2005(as amended). Regulations 1999 (as lel Obligations Order 2007 vironmental Permitting 010 (as amended). Waste 011 (as amended). Act 1990 and associated rection (Controls on

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

EINECS/ELINCS/EC	: /	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**

**Full text of H-Statements** H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects. Full text of other abbreviations Aquatic Chronic Chronic aquatic toxicity Eye Dam. Serious eye damage Skin Sens. Skin sensitisation Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites. ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung

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	DMEL = Derived Minimal Effect Lev	vel
	DNEL = Derived No Effect Level	
	DSL = Canada Domestic Substanc	e List
	EC = European Commission	
	EC50 = Effective Concentration fifty	
	ECETOC = European Center on Ec	cotoxicology and
	Toxicology Of Chemicals	2014
	ECHA = European Chemicals Ager EINECS = The European Inventory	
	Chemical Substances	
	EL50 = Effective Loading fifty	
	ENCS = Japanese Existing and Ne	w Chemical Substances
	Inventory	
	EWC = European Waste Code	
	GHS = Globally Harmonised System	m of Classification and
	Labelling of Chemicals	
	IARC = International Agency for Re	
	IATA = International Air Transport	
	IC50 = Inhibitory Concentration fifty	/
	IL50 = Inhibitory Level fifty IMDG = International Maritime Dan	aerous Goods
	INV = Chinese Chemicals Inventor	
	IP346 = Institute of Petroleum test	
	determination of polycyclic aromatic	
	KECI = Korea Existing Chemicals I	
	LC50 = Lethal Concentration fifty	
	LD50 = Lethal Dose fifty per cent.	
	LL/EL/IL = Lethal Loading/Effective	e Loading/Inhibitory loading
	LL50 = Lethal Loading fifty	an for the Drevention of
	MARPOL = International Convention for the Prevention of	on for the Prevention of
	Pollution From Ships NOEC/NOEL = No Observed Effec	t Concentration / No
	Observed Effect Level	
	OE_HPV = Occupational Exposure	e - High Production Volume
	PBT = Persistent, Bioaccumulative	
	PICCS = Philippine Inventory of Ch	nemicals and Chemical
	Substances	
	PNEC = Predicted No Effect Conce	
	REACH = Registration Evaluation A	And Authorisation Of
	Chemicals RID = Regulations Relating to Inter	national Carriago of
	Dangerous Goods by Rail	national Camage of
	SKIN_DES = Skin Designation	
	STEL = Short term exposure limit	
	TRA = Targeted Risk Assessment	
	TSCA = US Toxic Substances Con	trol Act
	TWA = Time-Weighted Average	
	vPvB = very Persistent and very Bi	oaccumulative

# Further information

Other information	:	No Exposure Scenario annex is attached to this safety data
		sheet. It is a non-classified mixture containing hazardous

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	Exposure Scenarios for the hazardo	substances as detailed in Section 3; relevant information from Exposure Scenarios for the hazardous substances contained have been integrated into the core sections 1-16 of this SDS.			
	A vertical bar ( ) in the left margin in 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.