



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

SDS # : 083212

**TRANSMISSION GEAR 8 FE  
75W-80**

Date of the previous version: 2017-02-14

Revision Date: 2017-10-31

Version 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1. Product identifier

<b>Product name</b>	<b>TRANSMISSION GEAR 8 FE 75W-80</b>
<b>Number</b>	DEE
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Transmission fluid.
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1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	A - TOTAL UK LIMITED 183 Eversholt St, Kings Cross London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
	B - TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact:

<b>Contact Point</b>	A - HSE
	B - HSE
<b>E-mail Address</b>	A - rm.gb-msds@total.co.uk
	B - rm.msds-lubs@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

UK: National Poisons Information Service (NPIS): NHS on 111 or a doctor

Section 2: HAZARDS IDENTIFICATION
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### 2.1. Classification of the substance or mixture

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

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

#### Classification

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

### 2.2. Label elements

Labelled according to REGULATION (EC) No 1272/2008

#### Hazard Statements

None\*\*\*

#### Precautionary statements

None\*\*\*

#### Supplemental Hazard Statements

EUH210 - Safety data sheet available on request\*\*\*

EUH208 - Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl May produce an allergic reaction

#### Unknown Acute Toxicity

3.653% of the mixture consists of ingredient(s) of unknown toxicity

### 2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** The product may form an oil film on the water surface that may stop the oxygen exchange.\*\*\*

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

#### Chemical nature

Mineral oil of petroleum origin.\*\*\*

#### Hazardous components

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
bis(nonylphenyl)amine	253-249-4***	01-2119488911-28	36878-20-3	1-<2.5	Aquatic Chronic 4 (H413)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide,	931-384-6***	01-2119493620-38	^	1-<2.5	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)

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and salted by amines, C12-14- tert-alkyl					
Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-	-	no data available	9036-19-5	<0.5	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319)

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name	CAS-No	SVHC candidates
Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-	9036-19-5	X

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	<b>IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***</b>
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.***
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.***
<b>Inhalation</b>	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.***
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.***
<b>Protection of first-aiders</b>	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.***

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Eye contact</b>	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
<b>Skin contact</b>	Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

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<b>Inhalation</b>	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to physician**                      **Treat symptomatically.\*\*\***

### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media**                      **Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.\*\*\***

**Unsuitable Extinguishing Media**                      Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

**Special hazard**    **Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides ( SO<sub>2</sub> and SO<sub>3</sub> ) and Hydrogen sulphide H<sub>2</sub>S. Phosphorous oxides. Nitrogen oxides (NO<sub>x</sub>). Mercaptans. Silicon dioxide.\*\*\***

#### 5.3. Precautions for fire-fighters

**Special protective equipment for fire-fighters**                      Wear self-contained breathing apparatus and protective suit.

**Other information**    Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

**General Information**    **Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.\*\*\***

#### 6.2. Environmental precautions

**General Information**    **Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.\*\*\***

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### 6.3. Methods and material for containment and cleaning up

<b>Methods for containment</b>	Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.***
<b>Methods for cleaning up</b>	Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.***

### 6.4. Reference to other sections

<b>Personal protective equipment</b>	See Section 8 for more detail.
<b>Waste treatment</b>	See section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.***
<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges.***
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.***

### 7.2. Conditions for safe storage, including any incompatibilities

<b>Technical measures/Storage conditions</b>	Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.***
<b>Materials to avoid</b>	Strong oxidising agents.***

### 7.3. Specific use(s)

<b>Specific use(s)</b>	No information available.
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## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parametres

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**Exposure limits**

Mineral oil mist:  
 USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)  
 Metalworking fluids:  
 USA: NIOSH (REL) TWA 0.5 mg/m<sup>3</sup>

**Legend**

See section 16

**DNEL Worker (Industrial/Professional)**

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
bis(nonylphenyl)amine 36878-20-3			0.62 mg/kg bw/day Dermal 4.37 mg/m <sup>3</sup> Inhalation	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl ^			12.5 mg/kg/8h (dermal) 8.56 mg/m <sup>3</sup> /8h (inhalation) (ECHA CHEM)	

**DNEL Consumer**

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
bis(nonylphenyl)amine 36878-20-3			0.31 mg/kg bw/day Dermal 1.09 mg/m <sup>3</sup> Inhalation 0.31 mg/kg bw/day Oral	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl ^			6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation) 0.25 mg/kg/24h (oral) (ECHA CHEM)	

**Predicted No Effect Concentration (PNEC)**

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
bis(nonylphenyl)amine 36878-20-3	0.1 mg/l fw 0.01 mg/l mw 1 mg/l or	132000 mg/kg dw fw 13200 mg/kg dw mw	263000 mg/kg dw		1 mg/l	

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Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ^	0.0012 mg/l fw 0.00012 mg/l mw 0.064 mg/ or	3.13 mg/kg fw 0.313 mg/kg mw	2.54 mg/kg soil dw		24.33 mg/l	10 mg/kg food
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### 8.2. Exposure controls

#### Occupational Exposure Controls

##### Engineering measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.\*\*\*

##### Personal protective equipment

###### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product AS DELIVERED. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.\*\*\*

###### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.\*\*\*

###### Eye protection

If splashes are likely to occur, wear: Safety glasses with side-shields.\*\*\*

###### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.\*\*\*

###### Hand protection

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.\*\*\*

#### Environmental exposure controls

##### General Information

The product should not be allowed to enter drains, water courses or the soil.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>		Clear	
<b>Colour</b>		yellow	
<b>Physical state @20°C</b>		liquid	
<b>Odour</b>		characteristic	
<b>Odour Threshold</b>		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>		Not applicable	
<b>Melting point/range</b>		Not applicable	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>	<b>240 °C</b> 464 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Upper</b>		No information available	
<b>Lower</b>		No information available	
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Relative density</b>	0.859	@ 15 °C	
<b>Density</b>	859 kg/m <sup>3</sup>	@ 15 °C	
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	50 - 60 mm <sup>2</sup> /s 9.0 - 9.8 mm <sup>2</sup> /s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidising properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	No information available		

### 9.2. Other information

**Freezing point** No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**General Information** None under normal processing.\*\*\*

### 10.2. Chemical stability

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**Stability** Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions** No dangerous reaction known under conditions of normal use.\*\*\*

### 10.4. Conditions to avoid

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.\*\*\*

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.\*\*\*

### 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Phosphorous oxides. Nitrogen oxides (NOx). Mercaptans. Combustion products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S. Silicon dioxide.\*\*\*

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

**Skin contact** . Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Eye contact** . Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.

**Inhalation** . Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

3.653 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
3.653 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity mg/kg

3.653 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

**ATEmix (inhalation-dust/mist)** 197.10 mg/l  
**ATEmix (inhalation-vapour)** 1,553.90 mg/l

#### Acute toxicity - Component Information

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
bis(nonylphenyl)amine	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl	LD50 2000 mg/kg bw (Rat - OECD TG 401)		-
Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-	= 4190 mg/kg ( Rat )		

**Sensitisation****Sensitisation**

Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction. The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required.

**Specific effects****Carcinogenicity**

This product is not classified carcinogenic.

**Mutagenicity**

This product is not classified as mutagenic.

**Reproductive toxicity**

This product does not present any known or suspected reproductive hazards.

**Repeated dose toxicity****Subchronic Toxicity**

No information available.

**Target Organ Effects (STOT)****Other information****Other adverse effects**

Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION
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**12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms

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bis(nonylphenyl)amine 36878-20-3	EC50 (72h) > 100 mg/l (Desmodesmus subspicatus - OECD 201)	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	LC50 (96h) > 100 mg/l (Brachyanio rerio - OECD 203)	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ^	EL50 (96h) > 15 mg (Selenastrum capricornutum - OECD 201) EC50 (96h) 6.4 mg/l ( Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 15 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 6.4 mg/L (Selenastrum capricornutum- OECD TG 201) (ECHA CHEM)	EL50 (48h) ca. 91.4 mg/l (Daphnia magna - OECD 202)	LL50 (96h) ca. 24 mg/l (Oncorhynchus mykiss - OECD 203)	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ^	NOEC (96h) 1.7 mg/l (Pseudokirchnerella subcapitata - OECD 201) par NOEC (96h) 3.3 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (21d) 0.91 mg/l (Daphnia magna - OECD 211) NOEL (21d) 0.12 mg/l (Daphnia magna - OECD 211) EL50 (21d) 0.66 mg/l (Daphnia magna - OECD 211)	-	EC50 (3h) ca. 2433 mg/L (Activated Sludge, domestic - OECD TG 209) (ECHA CHEM)

**Effects on terrestrial organisms**

No information available.

12.2. Persistence and Degradability**General Information**

No information available.

12.3. Bioaccumulative potential**Product Information**

No information available.

**logPow**

No information available

**Component Information**

Chemical Name	log Pow
bis(nonylphenyl)amine - 36878-20-3	7.7
Reaction products of 4-methyl-2-pentanol and diphosphorus	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)

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pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl - ^
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### 12.4. Mobility in soil

<b>Soil</b>	Given its physical and chemical characteristics, the product generally shows low soil mobility.
<b>Air</b>	Loss by evaporation is limited.
<b>Water</b>	The product is insoluble and floats on water.

### 12.5. Results of PBT and vPvB assessment

<b>PBT and vPvB assessment</b>	No information available.
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### 12.6. Other adverse effects

<b>General Information</b>	No information available.
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## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden. If recycling is not practicable, dispose of in compliance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.***
<b>EWC Waste Disposal No</b>	The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
<b>Other information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

<u>ADR/RID</u>	not regulated
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<u>IMDG/IMO</u>	not regulated
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ICAO/IATA not regulatedADN not regulated

### Section 15: REGULATORY INFORMATION

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

European Union

Further information

No information available\*\*\*

#### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

#### 15.3. National regulatory information

##### The United Kingdom

- Avoid exceeding occupational exposure limits (see section 8).

##### Ireland

- Avoid exceeding occupational exposure limits (see section 8).

### Section 16: OTHER INFORMATION

#### **Full text of H-Statements referred to under sections 2 and 3**

H226 - Flammable liquid and vapour  
 H302 - Harmful if swallowed  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H319 - Causes serious eye irritation  
 H411 - Toxic to aquatic life with long lasting effects  
 H413 - May cause long lasting harmful effects to aquatic life

#### **Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists  
 bw = body weight

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bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

### Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+ Sensitiser

\*\* Hazard Designation

M: Mutagen

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

Revision Date: 2017-10-31

Revision Note \*\*\* Indicates updated section. &amp; 1.\*\*\*

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.**

End of Safety Data Sheet

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