



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

SDS # : 083217

**TRANSMISSION AXLE 8 FE  
80W-140**

Date of the previous version: 2016-03-31

Revision Date: 2016-12-29

Version 1.03

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 AXLE 8 FE 80W-140</b>
<b>Number</b>	DEK
<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>	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
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For further information, please contact:

<b>Contact Point</b>	HSE
<b>E-mail Address</b>	rm.msds-lubs@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670  
France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
In France - Poison centers:  
ANGERS : 02 41 48 21 21  
BORDEAUX : 05 56 96 40 80  
LILLE : 08 00 59 59 59  
LYON : 04 72 11 69 11  
MARSEILLE : 04 91 75 25 25  
NANCY : 03 83 22 50 50  
PARIS : 01 40 05 48 48  
STRASBOURG : 03 88 37 37 37  
TOULOUSE : 05 61 77 74 47

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

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**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 Polysulfides, di-tert-Bu, Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl May produce an allergic reaction

2.3. Other hazards**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.**Environmental properties** Should not be released into the environment.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture**Hazardous ingredients**

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated heavy paraffinic***	265-157-1***	01-2119484627-25	64742-54-7	10-<20	Asp. Tox. 1 (H304)
Polysulfides, di-tert-Bu***	273-103-3***	01-2119540515-43	68937-96-2	2.5-<5	Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl***	931-384-6***	01-2119493620-38	^	1-<2	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)
O,O,O-triphenyl	209-909-9***	no data available	597-82-0	0.25-<1	Repr. 2 (H361)

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phosphorothioate***					Aquatic Chronic 4 (H413)
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**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.**

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first-aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

#### 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.

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### 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.

### 5.3. Advice 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. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.\*\*\*

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

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.\*\*\*

### 6.4. Reference to other sections

**Personal Protective Equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.\*\*\*

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<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.***
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. 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. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on 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.***
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<b>Materials to Avoid</b>	Strong oxidizing agents.***
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### 7.3. Specific end uses

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

### 8.1. Control parameters

<b>Exposure limits</b>	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);
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<b>Legend</b>	See section 16
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### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated heavy paraffinic*** 64742-54-7				5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation)
Polysulfides, di-tert-Bu*** 68937-96-2			14.5 mg/m <sup>3</sup> Inhalation 3.33 mg/kg bw/day Dermal	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified			12.5 mg/kg/8h (dermal) 8.56 mg/m <sup>3</sup> /8h (inhalation) (ECHA CHEM)	

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with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl*** ^				
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**DNEL Consumer**

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated heavy paraffinic*** 64742-54-7				1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation)
Polysulfides, di-tert-Bu*** 68937-96-2			2.6 mg/m <sup>3</sup> Inhalation 1.66 mg/kg bw/day Dermal	
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
Polysulfides, di-tert-Bu*** 68937-96-2	0.00024 mg/l fw 0.000024 mg/l mw 0.0024 mg/l or	0.94 mg/kg dw fw 0.094 mg/kg dw mw	1513 mg/kg dw		4.51 mg/l	6.66 mg/kg
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

**8.2. Exposure controls****Occupational Exposure Controls****Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

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breathing and wear the recommended equipment.

### Personal Protective Equipment

#### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

#### 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. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.

### 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

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

<b>Appearance</b>		limpid	
<b>Color</b>		yellow To amber	
<b>Physical State @20°C</b>		liquid	
<b>Odor</b>		Characteristic	
<b>Odor 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>	> 180 °C > 356 °F		Open cup Open cup
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	

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upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.882 - 0.893	@ 15 °C	ISO 12185
Density	882 - 893 kg/m <sup>3</sup>	@ 15 °C	ISO 12185
Water solubility		Insoluble	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	230 - 265 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
	24.6 - 26 mm <sup>2</sup> /s	@ 100 °C	ISO 3104
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	No information available		

### 9.2. Other information

Freezing Point		No information available
Pour point	< -27 °C	ASTM 5950

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**General Information** No information available.\*\*\*

### 10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous Reactions** None under normal processing.

### 10.4. Conditions to Avoid

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.\*\*\*

### 10.5. Incompatible materials

**Materials to Avoid** Strong oxidizing agents.\*\*\*

### 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** None under normal use. Incomplete combustion and thermolysis may produce gases of

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varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.\*\*\*

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

<b>Skin contact</b>	. Not classified. May produce an allergic reaction.
<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>Inhalation</b>	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>ATEmix (oral)</b>	22,115.00 mg/kg
<b>ATEmix (dermal)</b>	22,443.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	24.90 mg/l
<b>ATEmix (inhalation-vapor)</b>	1,055.90 mg/l

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic***	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
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)		-

#### Sensitization

**Sensitization** Not classified as a sensitizer. 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 . Contains sensitizer(s). May produce an allergic reaction.

#### 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.

Chemical Name	European Union
O,O,O-triphenyl phosphorothioate*** 597-82-0	Repr. 2 (H361)

#### Repeated Dose Toxicity

**Subchronic toxicity** No information available.

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### Target Organ Effects (STOT)

**Target Organ Effects (STOT)** No information available.

### Other information

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

### Section 12: ECOLOGICAL INFORMATION

#### 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
Distillates (petroleum), hydrotreated heavy paraffinic*** 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
Polysulfides, di-tert-Bu*** 68937-96-2	EC50 (72h) > 100 mg/l (Alga)	EC50 (48h) 63 mg/l (Daphnia magna)		
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
Distillates (petroleum), hydrotreated heavy		NOEL (21d) 10 mg/l (Daphnia magna - QSAR)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss -	

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paraffinic*** 64742-54-7		Petrotox)	QSAR Petrotox)	
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
Distillates (petroleum), hydrotreated heavy paraffinic*** - 64742-54-7	-
Polysulfides, di-tert-Bu*** - 68937-96-2	6
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl*** - ^	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)

12.4. Mobility in soil**Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

**Air**

Loss by evaporation is limited.

**Water**

Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

No information available.

12.6. Other adverse effects**General Information**

No information available.



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### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

<b>Waste from Residues / Unused Products</b>	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.
<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.

### Section 14: TRANSPORT INFORMATION

<u>ADR/RID</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>ADN</u>	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

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### Section 16: OTHER INFORMATION

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

H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H361 - Suspected of damaging fertility or the unborn child if inhaled  
 H411 - Toxic to aquatic life with long lasting effects  
 H412 - Harmful 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  
 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  
 PEL: Permissible exposure limit  
 REL: Recommended exposure limit  
 TLV: Threshold Limit Values

+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

**Revision Date:** 2016-12-29  
**Revision Note** \*\*\* Indicates updated section.

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

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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 the Safety Data Sheet

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