



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 32919

### CAPRANO TDH 15W-40

Date of the previous version: 2018-02-09

Revision Date: 2018-11-23

Version 5.1

#### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

<b>Product name</b>	<b>CAPRANO TDH 15W-40</b>
<b>Number</b>	JGY
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Motor oil.
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##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	<p>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</p> <p>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***</p>
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##### For further information, please contact:

<b>Contact Point</b>	A - HSE
	B - HSE***
<b>E-mail Address</b>	A - <a href="mailto:rm.gb-msds@total.co.uk">rm.gb-msds@total.co.uk</a>
	B - <a href="mailto:rm.msds-lubs@total.com">rm.msds-lubs@total.com</a> ***

##### 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

##### 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\*\*\***Signal word**

None\*\*\*

**Hazard Statements \*\*\***

None\*\*\*

**Precautionary statements**

None\*\*\*

**Supplemental Hazard Statements**

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

EUH208 - Contains Calcium long chain alkarylsulphonate. May produce an allergic reaction\*\*\*

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 %	Classification (Reg. 1272/2008)
Paraffin oils (petroleum), catalytic dewaxed heavy***	265-174-4***	01-2119487080-42	64742-70-7	5-<10	Asp. Tox. 1 (H304)
Amines, polyethylenepoly-, re action products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs***	604-611-9***	no data available	147880-09-9	2.5-<5	Aquatic Chronic 4 (H413)

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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts***	272-238-5***	01-2119657973-23	68784-31-6	1-<2.5	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Calcium long chain alkarylsulphonate***	-	-	722503-69-7	1-<2.5	Skin Sens. 1B (H317) Aquatic Chronic 4 (H413) ***
Calcium long chain alkaryl sulfonate***	-	-	722503-68-6	0.25-<1	Aquatic Chronic 4 (H413) Skin Sens.1B (H317)***

**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>	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.
<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 based on available data. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required.***
<b>Skin contact</b>	Not classified based on available data. May produce an allergic reaction.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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### 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. Mercaptans. Nitrogen oxides (NO<sub>x</sub>). Phosphorous oxides. Zinc oxides.

#### 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.

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

**Methods for containment** Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

**Methods for cleaning up** 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.

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### 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** 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.

**Prevention of fire and explosion** Take precautionary measures against static discharges.

**Hygiene measures** 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

**Technical measures/Storage conditions** Keep away from food, drink and animal feedingstuffs. Keep in a bunded 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. Store at room temperature. Protect from moisture.

**Materials to avoid** Strong oxidising agents.

#### 7.3. Specific use(s)

**Specific use(s)** Please refer to Technical Data Sheet for further information.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parametres

**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)

**Legend** See section 16

**Derived No Effect Level (DNEL)**

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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
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts*** 68784-31-6			9.6 mg/kg bw/day (dermal) 6.6 mg/m <sup>3</sup> (inhalation)	

### DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts*** 68784-31-6			4.8 mg/kg bw/day (dermal) 1.67 mg/m <sup>3</sup> (inhalation) 0.19 mg/kg bw/day (oral)	

### Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Paraffin oils (petroleum), catalytic dewaxed heavy*** 64742-70-7						9.33 mg/kg food
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts*** 68784-31-6	4 µg/l fw 4.6 µg/l mw 4.4 µg/l or	0.00701 mg/kg dw mw	0.0548 mg/kg dw		3.8 mg/l	8.33 mg/kg

### 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

None under normal use conditions. 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. Warning ! filters have a limited use duration. 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. EN 166.

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## Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type 4/6.

## 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. 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.

## 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

Appearance		Clear***	
Colour		brown***	
Physical state @20°C		liquid***	
Odour		characteristic***	
Odour Threshold		No information available***	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable***	
Melting point/range		Not applicable***	
Boiling point/boiling range		No information available***	
Flash point ***	240*** °C*** 464*** °F***		ASTM D 92*** ASTM D 92***
Evaporation rate		No information available***	
Flammability Limits in Air		***	
Upper ***		No information available***	***
Lower ***		No information available***	***
Vapour pressure		No information available***	
Vapour density		No information available***	
Relative density ***	*** 0.870*** - *** 0.890***	@ 15 °C***	ASTM D 1298***
Density	870*** - *** 890*** kg/m <sup>3</sup> ***	@ 15 °C***	ASTM D 1298***
Water solubility		Insoluble***	
Solubility in other solvents		No information available***	
logPow		No information available***	
Autoignition temperature		No information available***	

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Decomposition temperature	No information available
Viscosity, kinematic ***	*** 117.1*** mm2/s*** @ 40 °C*** ASTM D 445***
Explosive properties	Not explosive***
Oxidising properties	Not applicable***
Possibility of hazardous reactions	None under normal processing***

### 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

**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. Combustion products include sulphur oxides ( SO<sub>2</sub> and SO<sub>3</sub> ) and Hydrogen sulphide H<sub>2</sub>S. Mercaptans. Nitrogen oxides (NO<sub>x</sub>). Phosphorous oxides. Zinc oxides.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

**Skin contact** . Not classified based on available data. May produce an allergic reaction.

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<b>Eye contact</b>	. Not classified based on available data. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required.***
<b>Inhalation</b>	. Not classified based on available data. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	. Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
<b>ATEmix (inhalation-dust/mist)</b>	65.20*** mg/l***
<b>ATEmix (inhalation-vapour)</b>	151.50*** mg/l***

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Paraffin oils (petroleum), catalytic dewaxed heavy***	LD50 >5000 mg/kg (rat)	LD50 >5000 mg/kg (rabbit)	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts***	2900 mg/kg (rat)	> 5000 mg/kg (rabbit)	

## Sensitisation

<b>Sensitisation</b>	Not classified based on available data. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required. Contains sensitizer(s). May produce an allergic reaction.***
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## Specific effects

<b>Carcinogenicity</b>	Not classified based on available data. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
<b>Mutagenicity</b> <b>Germ cell mutagenicity</b>	. Not classified based on available data.
<b>Reproductive toxicity</b>	Not classified based on available data.
<b>Repeated dose toxicity</b>	
<b>Target Organ Effects (STOT)</b>	
<b>Specific target organ systemic toxicity (single exposure)</b>	Not classified based on available data.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified based on available data.
<b>Aspiration toxicity</b>	Not classified based on available data.

## Other information

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**Other adverse effects**

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

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

Not classified based on available data.

**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
Paraffin oils (petroleum), catalytic dewaxed heavy*** 64742-70-7	NOEL(72h) >100 mg/l (Pseudokirchneriella subcapitata)	EL50(48h) >10000 mg/l (Daphnia magna)	LC50(96h) >100 mg/l (Pimephales promelas)	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts*** 68784-31-6	EbL50 (72h) 240 mg/l Desmodesmus subspicatus ErL50 (0-72hr) 410 mg/L	EL50 (48h) 75 mg/l daphnia magna	LL50 (96h) 4.4 mg/l Oncorhynchus mykiss	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

No information available.

**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**

No information available.

**12.4. Mobility in soil**

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<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. Do not empty into drains. 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.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.***
<b>EWG Waste Disposal No</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. The following Waste Codes are only suggestions: 13 02 05.
<b>Other information</b>	Refer to section 8 for safety and protective measures for disposal personnel.

## 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

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

European Union

#### REACH

All substances contained in this mixture have been pre-registered, registered or are exempt from registration in accordance with Regulation (CE) No. 1907/2006 (REACH)\*\*\*

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:

U.S.A. (TSCA)  
 Canada (DSL/NDL)  
 Europe (EINECS/ELINCS/NLP)  
 Australia (AICS)  
 Korea (KECL)  
 China (IECSC)  
 Philippines (PICCS)\*\*\*

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

H304 - May be fatal if swallowed and enters airways  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 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

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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

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

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Revision Note \*\*\* Indicates updated section.

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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