



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

SDS # : 31280

HYDROFLO CT

Date of the previous version: not applicable

Revision Date: 2015-03-27

Version 2

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

1.1. Product identifier

Product name	HYDROFLO CT
Number	L02
Substance/mixture	Mixture

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

Identified uses	Hydraulic oil, Antiwear.
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1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
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For further information, please contact:

Contact Point	Specific Product Related Info : 01977 636200
E-mail Address	rm.gb-msds@total.co.uk

1.4. Emergency telephone number

00 33 149 00 00 49 (24h/24, 7d/7)
TOTAL UK ltd: + 44 (0) 20 7339 8000
For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200
For bitumen only: Total Bitumen +44 (0) 17 7272 9302

Section 2: HAZARDS IDENTIFICATION

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 classified as dangerous in accordance with Regulation (EC) No. 1272/2008
Chronic aquatic toxicity - Category 3 - (H412)



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DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16.

The substance/mixture is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

Classification

R52/53

2.2. Label elements

Labelled according to REGULATION (EC) No 1272/2008

Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

P501 - Dispose of contents/container to an approved waste disposal plant

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 components**

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
2,6-di-tert-butylphenol	204-884-0	01-2119490822-33	128-39-2	0.1-0.5	Xi;R38 N;R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)
Methyl methacrylate	201-297-1	no data available	80-62-6	0.001-0.025	F;R11 Xi;R37/38 R43	STOT SE 3 (H335) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Flam Liq. 1 (H224)
toluene	203-625-9	01-2119471310-51	108-88-3	0.001-0.025	F;R11 Xi;R38 Xn;R48/20-65 Repr.Cat.3;R63 R67	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412)



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Ethyl acrylate	205-438-8	01-2119459301-46	140-88-5	0.0001-0.002 5	R11 R20 R21 R22 R36 R37 R38 R43	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Aquatic Chronic 3 (H412) Flam. Liq. 2 (H225)
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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 R-phrases mentioned in this Section, see Section 16.
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

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air. Inhalation of high concentrations of vapour or aerosols may cause irritation of the upper respiratory tract.
Ingestion	Rinse mouth. Do NOT induce vomiting.

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

Eye contact	Not classified. Avoid contact with eyes.
Skin contact	Not classified. Avoid contact with skin.
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.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media



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Suitable extinguishing media Foam. Carbon dioxide (CO₂). ABC powder. Water spray.

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 No information available.

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 Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapours. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Contaminated surfaces will be extremely slippery.

6.2. Environmental precautions

General Information Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. 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 Dam up. Soak up with inert absorbent material. After cleaning, flush away traces with water. Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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 Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not breathe vapours or spray mist. Use only in well-ventilated areas.

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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. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep out of reach of children. Keep container tightly closed in a dry and well-ventilated place. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Protect from moisture. Store in original container.

Materials to avoid

Strong oxidising agents.

7.3. Specific use(s)

Specific use(s)

No information available.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

Exposure limits

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

Components with workplace control parametres

Chemical Name	European Union	The United Kingdom	Ireland
Methyl methacrylate 80-62-6	STEL 100 ppm TWA 50 ppm	STEL 100 ppm STEL 416 mg/m ³ TWA 50 ppm TWA 208 mg/m ³	TWA 50 ppm STEL 100 ppm
toluene 108-88-3	TWA 50 ppm TWA 192 mg/m ³ STEL 100 ppm STEL 384 mg/m ³ S*	STEL 100 ppm STEL 384 mg/m ³ TWA 50 ppm TWA 191 mg/m ³ Skin	TWA 50 ppm TWA 192 mg/m ³ STEL 100 ppm STEL 384 mg/m ³ Skin
Ethyl acrylate 140-88-5	STEL 10 ppm STEL 42 mg/m ³ TWA 5 ppm TWA 21 mg/m ³	STEL 15 ppm STEL 62 mg/m ³ TWA 5 ppm TWA 21 mg/m ³	TWA 5 ppm TWA 20 mg/m ³ STEL 15 ppm STEL 60 mg/m ³ Skin

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
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2,6-di-tert-butylphenol 128-39-2			2.77 mg/kg bw/day Dermal 19.6 mg/m ³ Inhalation	
Methyl methacrylate 80-62-6		1.5 mg/cm ² Dermal	208 mg/m ³ Inhalation 13.67 mg/kg Dermal	208 mg/m ³ Inhalation 1.5 mg/cm ² Dermal
toluene 108-88-3	384 mg/m ³ (inhalation)	384 mg/m ³ (inhalation)	192 mg/m ³ (inhalation) 384 mg/kg bw/day (dermal)	192 mg/m ³ (inhalation)
Ethyl acrylate 140-88-5		0.92 mg/m ³ (dermal)		21 mg/m ³ (inhalation)

DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2,6-di-tert-butylphenol 128-39-2			1.67 mg/kg bw/day Oral 5.8 mg/m ³ Inhalation	
Methyl methacrylate 80-62-6		1.5 mg/cm ² Dermal	74.3 mg/m ³ Inhalation 8.2 mg/kg Dermal	104 mg/m ³ Inhalation 1.5 mg/cm ² Dermal
toluene 108-88-3	226 mg/m ³ (inhalation)	226 mg/m ³ (inhalation)	226 mg/kg bw/day (dermal) 56.5 mg/m ³ (inhalation) 8.13 mg/kg bw/day (oral)	
Ethyl acrylate 140-88-5		0.92 mg/m ³ (dermal)		2.5 mg/m ³ (inhalation)

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
2,6-di-tert-butylphenol 128-39-2	0.00045 mg/l fw 0.000045 mg/l mw 0.0045 mg/l or	0.196 mg/kg dw fw 0.0196 mg/kg dw mw	0.0389 mg/kg dw		10 mg/l	
Methyl methacrylate 80-62-6	0.94 mg/l fw 0.94 mg/l mw 0.94 mg/l or	5.74 mg/kg dw fw	1.47 mg/kg dw		10 mg/l	
toluene 108-88-3	0.68 mg/l fw 0.68 mg/l mw 0.68 mg/l or	16.39 mg/kg dw fw 16.39 mg/kg dw mw	2.89 mg/kg dw		13.61 mg/l	
Ethyl acrylate 140-88-5	0.00272 mg/l fw 0.00027 mg/l mw 0.0011 mg/l or	0.0213 mg/kg sediment dw fw 0.0213 mg/kg sediment dw mw	1 mg/kg soil dw		10 mg/l	0.01 g/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 breathing and wear the recommended equipment.



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Personal protective equipment

General Information	Protective engineering solutions should be implemented and in use before personal protective equipment is considered.
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/P2. 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. Long sleeved clothing. Protective shoes or boots. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing.
Hand protection	Impervious gloves. Hydrocarbon-proof gloves. Nitrile rubber. Fluorinated 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 Do not allow material to contaminate ground water system.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance		Clear	
Colour		blue	
Physical state @20°C		Liquid	
Odour		characteristic	
Property	Values	Remarks	Method
pH		Not applicable	
Boiling point/boiling range		No information available	
Flash point	> 220 °C > 428 °F		ASTM D 93 ASTM D 93
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapour pressure		No information available	
Vapour density		No information available	
Density	876 - 886 kg/m ³	@ 15 °C	
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	



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Autoignition temperature	No information available		
Viscosity, kinematic	48.2 - 50.4 mm ² /s	@ 40 °C	ISO 3104
Explosive properties	Not explosive		
Oxidising properties	Not applicable		
Possibility of hazardous reactions	No information available		

9.2. Other information

Pour point	< - 39 °C	ASTM D 97
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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information	No information available.
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	None under normal processing.
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10.4. Conditions to Avoid

Conditions to Avoid	Heat, flames and sparks. Take precautionary measures against static discharges.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents.
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10.6. Hazardous Decomposition Products

Hazardous Decomposition Products	No information available.
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Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

Skin contact	. Not classified. Avoid contact with skin.
Eye contact	. Not classified. Avoid contact with eyes.
Inhalation	. Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.



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

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-di-tert-butylphenol	> 5000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	
Methyl methacrylate	LD50 > 5000 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	LD50(4h) 29.8 mg/kg (Rat - Vapour)
toluene	5580 mg/kg bw (rat)	> 5000 mg/kg bw (rabbit)	28.1 mg/L (Rat-vapour) 4h
Ethyl acrylate	LD50 1120 mg/kg bw (rat)	LD50 3049 mg/kg bw (rat)	LC50 (4h) < 9.137 mg/l (rat - vapour)

Sensitisation

Sensitisation Not classified as a sensitizer.

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
toluene 108-88-3	Repr. 2 (H361d)

Repeated Dose Toxicity

Subchronic Toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information



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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
2,6-di-tert-butylphenol 128-39-2	EC50 (72h) 1.2 mg/l	EC50 (48h) = 0.45 mg/L Daphnia magna	LC50(96h) 1 mg/l (fish)	
Methyl methacrylate 80-62-6	EC50 (72h) > 110 mg/l (Selenastrum capricornutum)	EC50 (48h) = 69 mg/L Daphnia magna	LC50 (96h) > 79 mg/l (Oncorhynchus mykiss)	
toluene 108-88-3	EC50 (3 h) 134 mg/l Chlorella vulgaris	EC50 (48h) 3.78mg/l Daphnia magna	LC50 (96h) 5.5 mg/l Oncorhynchus kisutch	-
Ethyl acrylate 140-88-5	EC50 (72h) 5.9 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 5.2 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (72h) 2.65 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (72h) 48 mg/l (Desmodesmus subspicatus)	EC50 (48h) 7.9 mg/l (Daphnia magna)	LC50 (96h) 2 mg/l (Cyprinodon variegatus) LC50 (96h) 4.6 mg/l (Oncorhynchus mykiss (96h)) LC50 (96h) 2.31 - 2.7 mg/l (Pimephales promelas) LC50 (96h) 10.0 - 22.0 mg/l (Leuciscus idus)	

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
2,6-di-tert-butylphenol 128-39-2			NOEC (28d) 0.3 mg/l (fish)	
toluene 108-88-3	NOEC(72h) 10 mg/l Skeletonema costatum	NOEC (7d) 0.74 mg/l (Ceriodaphnia dubia) EC50 (7d) 3.23 mg/l (Ceriodaphnia dubia) LOEC (7d) 2.76 mg/l (Ceriodaphnia dubia)	NOEC (40d) 1.39 mg/l (Oncorhynchus kisutch) LOEC (40d) 2.77 mg/l (Oncorhynchus kisutch)	
Ethyl acrylate 140-88-5	NOEC (96h) < 3.8 mg/l (Pseudokirchnerella subcapitata - OECD 201) NOEC (96h) < 1.8 mg/l (Pseudokirchnerella subcapitata - OECD 201)	NOEC (21d) 0.19 mg/l (Daphnia magna) LOEC (21d) 0.45 mg/l (Daphnia magna) EC (21d) 0.5 mg/l (Daphnia magna)	NOEC (96h) 0.62 mg/l (Cyprinodon variegatus)	

Effects on terrestrial organisms

No information available.

12.2. Persistence and Degradability**General Information**

No information available.



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12.3. Bioaccumulative potential**Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
2,6-di-tert-butylphenol - 128-39-2	4.48
Methyl methacrylate - 80-62-6	1.38
toluene - 108-88-3	2.73

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** The product is insoluble and floats on 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.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from residues / unused products** 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. If recycling is not practicable, dispose of in compliance with local regulations.**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.**EWC Waste Disposal No** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions: 13 02 05.

Section 14: TRANSPORT INFORMATION

ADR/RID not regulatedIMDG/IMO 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

International Inventories No information available

Further information

No information available

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available15.3. 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 R-phrases referred to under sections 2 and 3**

R11 - Highly flammable
 R20 - Harmful by inhalation
 R21 - Harmful in contact with skin
 R22 - Harmful if swallowed
 R36 - Irritating to eyes
 R37 - Irritating to respiratory system
 R38 - Irritating to skin
 R43 - May cause sensitisation by skin contact
 R63 - Possible risk of harm to the unborn child
 R65 - Harmful: may cause lung damage if swallowed
 R67 - Vapours may cause drowsiness and dizziness



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R37/38 - Irritating to respiratory system and skin
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H224 - Extremely flammable liquid and vapour
 H225 - Highly flammable liquid and vapour
 H302 - Harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H312 - Harmful in contact with skin
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H361d - Suspected of damaging the unborn child
 H373 - May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system through prolonged or repeated exposure if swallowed
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Abbreviations, acronyms

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

Revision Date: 2015-03-27

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