



# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 31458

## FLUIDE ATX

Date of the previous version: 2013-06-12

Revision Date: 2014-06-19

Version 2.01

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

<b>Product name</b>	<b>FLUIDE ATX</b>
<b>Number</b>	377
<b>Pure 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 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

+33 1 49 00 00 49 (24h/24, 7d/7)  
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
 In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -  
 MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard  
 Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de  
 Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel ( 15 )

### 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.

##### 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

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## Classification

R52/53

## 2.2. Label elements

Labelled according to

Directive 1999/45/EC

## R-phrases(s)

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Contains 1-(tert-dodecylthio)propan-2-ol, Benzene, polypropene derivatives, sulfonated, calcium salts, Ethanol, 2,2'-iminobis-, N-tallow alkyl derivates. May produce an allergic reaction.

Safety data sheet available on request.

## 2.3. Other hazards

### Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

### Properties Affecting Health

May produce an allergic reaction.

### Environmental properties

Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated light naphthenic	265-156-6	01-2119480375-34	64742-53-6	4.4312	Xn;R65	-
Distillates (petroleum), hydrotreated middle	265-148-2	no data available	64742-46-7	4.4252	Xn;R65	Asp. Tox. 1 (H304)
2,6-di-tert-butyl-p-cresol	204-881-4	01-2119555270-46	128-37-0	0.7252	N;R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
1-(tert-dodecylthio)propan-2-ol	266-582-5	no data available	67124-09-8	0.7252	R43 N;R50-53	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Benzene, polypropene derivatives, sulfonated, calcium salts	-	no data available	^	0.222	R43	Skin Sens. 1 (H317) Eye Irrit. 2 (H319)
Toluene	203-625-9	01-2119471310-51	108-88-3	0.1332	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)

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Solvent naphta (petroleum), medium aliph.	265-191-7	no data available	64742-88-7	0.1332	R10 Xi;R38 N;R51-53 Xn;R65	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives	263-177-5	-	61791-44-4	0.1332	C;R34 Xn;R22 R43 N;R50	Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Eye Dam. 1 (H318) Met. Corr. 1 (H290)

**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.**

#### 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 for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. May cause an allergic skin reaction.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice.

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

<b>Skin contact</b>	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 immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### 5.1. Extinguishing media

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**Suitable Extinguishing Media** Foam. Carbon dioxide (CO<sub>2</sub>). 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** 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.

### 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.

## 6. ACCIDENTAL RELEASE MEASURES

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

**General Information** Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. For personal protection see section 8.

### 6.2. Environmental precautions

**General Information** Try to prevent the material from entering drains or water courses. 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. 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.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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## Advice on safe handling

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

## Hygiene measures

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. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. 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 in a banded area. Keep container tightly closed. Do not remove the hazard labels of the containers (even if they are empty). Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. 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.

### Materials to Avoid

Strong oxidizing agents.

## 7.3. Specific end uses

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

oil mist : 10mg/m<sup>3</sup>, for 15 minutes; oil mist : 5mg/m<sup>3</sup>, for 8 hours.

Chemical Name	European Union
Toluene 108-88-3	TWA 50 ppm TWA 192 mg/m <sup>3</sup> STEL 100 ppm STEL 384 mg/m <sup>3</sup> S*

#### 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
Distillates (petroleum), hydrotreated middle 64742-46-7	5000 mg/m <sup>3</sup> /15 min (aerosol - inhalation)		2.9 mg/kg bw/8h (dermal) 16 mg/m <sup>3</sup> /8h (aerosol - inhalation)	
2,6-di-tert-butyl-p-cresol 128-37-0			5.8 mg/m <sup>3</sup> inhalation 8.3 mg/kg bw/day dermal	
1-(tert-dodecylthio)propan-2-ol 67124-09-8		0.2154 mg/cm <sup>2</sup> Dermal	11.8 mg/m <sup>3</sup> Inhalation 3.34 mg/kg bw/day Dermal	
Toluene 108-88-3	384 mg/m <sup>3</sup> (inhalation)	384 mg/m <sup>3</sup> (inhalation)	384 mg/kg bw/day (dermal) 192 mg/m <sup>3</sup> (inhalation)	192 mg/m <sup>3</sup> (inhalation)

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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 middle 64742-46-7	3000 mg/m <sup>3</sup> /15min (aerosol - inhalation)		1.3 mg/kg bw/8h (dermal) 4.8 mg/m <sup>3</sup> /8h (aerosol - inhalation)	
2,6-di-tert-butyl-p-cresol 128-37-0			5 mg/kg bw/day dermal	
1-(tert-dodecylthio)propan-2-ol 67124-09-8		0.1077 mg/cm <sup>2</sup> Dermal	2.9 mg/m <sup>3</sup> Inhalation 1.67 mg/kg bw/day Dermal 0.84 mg/kg bw/day Oral	
Toluene 108-88-3	226 mg/m <sup>3</sup> (inhalation)	226 mg/m <sup>3</sup> (inhalation)	226 mg/kg bw/day (dermal) 56.5 mg/m <sup>3</sup> (inhalation) 8.13 mg/kg bw/day (oral)	

**Predicted No Effect Concentration (PNEC)**

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
2,6-di-tert-butyl-p-cresol 128-37-0	0.004 mg/L fw 0.004 mg/L mw 0.004 mg/L ir	1.29 mg/kg sediment dw fw	1.04 mg/kg soil dw		100 mg/L	16.7 mg/kg food
1-(tert-dodecylthio)propan-2-ol 67124-09-8	0.0064 mg/l fw 0.00064 mg/l mw 0.0058 mg/l or	1.8 mg/kg dw fw 0.18 mg/kg dw mw	0.21895 mg/kg dw		100 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	

**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.

**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). 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**

Impervious gloves. Protective shoes or boots. Long sleeved clothing.

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## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Color		red	
Physical State @20°C		liquid	
Odor		Characteristic	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable	
Boiling point/boiling range		No information available	
Flash point	190 °C 374 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Density	863 kg/m <sup>3</sup>	@ 15 °C	
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	> 250 °C > 482 °F		
Viscosity, kinematic	40 mm <sup>2</sup> /s 8.1 mm <sup>2</sup> /s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		

### 9.2. Other information

Pour point	-43 °C	ASTM D97
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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity



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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** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot, Hydrogen sulphide, Sulfur oxides.**11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information****Skin contact** Not classified. May produce an allergic reaction.**Eye contact** Not classified. .**Inhalation** . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated light naphthenic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
Distillates (petroleum), hydrotreated middle	> 5000 mg/kg bw (Rat - OECD TG 401)	> 2000 mg/kg bw 24h (Rabbit - OECD TG 402)	= 4.6 mg/l aerosol (4h- rat) OECD TG 403
2,6-di-tert-butyl-p-cresol	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 5001 mg/kg (Rabbit - OECD 402)	
1-(tert-dodecylthio)propan-2-ol	LD50 > 5000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit - OECD 434)	
Toluene	5580 mg/kg bw (rat)	> 5000 mg/kg bw (rabbit)	28.1 mg/L (Rat-vapour) 4h

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Solvent naphta (petroleum), medium aliph.	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h
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## Sensitization

### Sensitization

Contains sensitizer(s). May produce an allergic reaction.

## Specific effects

### Carcinogenicity

This product is not classified carcinogenic.

Chemical Name	European Union
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	-
Distillates (petroleum), hydrotreated middle 64742-46-7	-

### 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

# 12. ECOLOGICAL INFORMATION

## 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 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 light naphthenic 64742-53-6		EC50 (48h) > 1000 mg/L Daphnia magna	LC50 (96h) > 5000 mg/L Oncorhynchus mykiss ()	
Distillates (petroleum), hydrotreated middle 64742-46-7	ErL50 (72h) = 22 mg/l (OECD TG 201)	EL50 (48h) = 68 mg/l (OECD TG 202)	LL50 (96h) = 21 mg/l (OECD TG 203)	

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2,6-di-tert-butyl-p-cresol 128-37-0	EC50 (72h) 0.5 mg/L (Desmodesmus subspicatus)	LC50 (48h) 0.61 mg/L (Daphnia magna - OECD 202)	LC50 (96h) > 0.57 mg/L (Danio rerio)	
1-(tert-dodecylthio)propan-2-ol 67124-09-8		EL50 (48h) 0.58 mg/l (Daphnia magna - static - OECD 202)	LL50 (96h) 0.75 mg/l (Oncorhynchus mykiss - semi static - OECD 203)	
Toluene 108-88-3	EC50 (3 h): 134 mg/l Chlorella vulgaris NOEC(72h) 10 mg/l Skeletonema costatum	EC50 (48h) 3.78mg/l Daphnia magna	LC50 (96h) 5.5mg/l Oncorhynchus kisutch	EC50 = 19.7 mg/L 30 min
Solvent naphta (petroleum), medium aliph. 64742-88-7	EL50 (96h) = 1-3 mg/l Pseudokirchneriella subcapitata	EL50 (48h) 1.4 mg/L Daphnia magna	LL50 (96h) 2-5 mg/l Oncorhynchus mykiss	

**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 middle 64742-46-7		NOEL (21d) = 0.163 mg/l (QSAR modelled data)	NOEL (14d) = 0.069 mg/l (QSAR modelled data)	
2,6-di-tert-butyl-p-cresol 128-37-0		NOEC (21d) 0.07 mg/L (Daphnia magna)		
Toluene 108-88-3			NOEC (40d) 1.39 mg/l Oncorhynchus kisutch LOEC (40d) 2.77 mg/l Oncorhynchus kisutch	

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and degradability****General Information**

No data is available on the product itself.

**12.3. Bioaccumulative potential****Product Information**

No information available.

**logPow**

No information available

**Component Information**

Chemical Name	log Pow
2,6-di-tert-butyl-p-cresol - 128-37-0	5.1
1-(tert-dodecylthio)propan-2-ol - 67124-09-8	4.7
Toluene - 108-88-3	2.73

**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

**PBT and vPvB assessment** No information available.

### 12.6. Other adverse effects

## 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. 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.
<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.

## 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

## 15. REGULATORY INFORMATION

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

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Further information

## 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

## 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R65 - Harmful: may cause lung damage if swallowed  
 R43 - May cause sensitization by skin contact  
 R11 - Highly flammable  
 R67 - Vapors may cause drowsiness and dizziness  
 R63 - Possible risk of harm to the unborn child  
 R38 - Irritating to skin  
 R34 - Causes burns  
 R50 - Very toxic to aquatic organisms  
 R22 - Harmful if swallowed  
 R10 - Flammable  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation  
 R51/53 - 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

H225 - Highly flammable liquid and vapor  
 H290 - May be corrosive to metals  
 H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H314 - Causes severe skin burns and eye damage  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H319 - Causes serious eye irritation  
 H336 - May cause drowsiness or dizziness  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H411 - Toxic to aquatic life with long lasting effects

### Abbreviations, acronyms

#### Legend Section 8

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

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**Revision Date:** 2014-06-19  
**Revision Note** \*\*\* Indicates updated section.**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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