



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 36240

AURELIA TI 4030

Date of the previous version: 2017-03-14

Revision Date: 2017-12-19

Version 6.01

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

1.1. Product identifier

Product name	AURELIA TI 4030
Number	M6U
Substance/mixture	Mixture

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

Identified uses	Marine Trunk Piston Engine Oil.
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1.3. Details of the supplier of the safety data sheet

Supplier	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:

Contact Point	HSE***
E-mail Address	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

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008 ***

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

*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 mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30), Benzoic acid, hydroxy-, mono-C20-28-branched alkyl derivatives, calcium salt (2:1). **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 ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
mixture of: calcium bis(C10-14 branched alkylsalicylate); calcium bis(C18-30 alkyl salicylate); calcium bis(C18-30 alkyl phenolate); calcium bis(C10-14 branched alkyl phenolate); lubricating oil (C15-30)***	-	01-0000019268-63-000	^	1-<2.5	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)
Phenol, dodecyl-, sulfurized,	272-234-3***	01-2119524004-56	68784-26-9	1-<2.5	Aquatic Chronic 4 (H413)

Version EU

SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

carbonates, calcium salts, overbased***					
Benzoic acid, hydroxy-, mono-C20-28-branched alkyl derivatives, calcium salt (2:1)***	-	-	900185-23-1	1-<2.5	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)
Phenol, dodecyl-, branched***	310-154-3***	01-2119513207-49-002	121158-58-5	0.1-<0.3	Skin Corr. 1C (H314) Eye Dam. 1 (H318) Repr. 1B (H360F) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M factor acute = 10 M factor chronic =10***

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

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***
Eye contact	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.***
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.***
Inhalation	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.***
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.***
Protection of First-aiders	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

Eye contact	Not classified based on available data.***
Skin contact	Not classified based on available data. May produce an allergic reaction.***
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

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 (CO₂). 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 (SO₂ and SO₃) and Hydrogen sulphide H₂S. Phosphorous oxides. Mercaptans. Zinc oxides.***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. 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.***

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

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 vapors 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 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. Store at room temperature. Protect from moisture.*****Materials to Avoid** Strong oxidizing agents.***7.3. Specific end uses**Specific use(s)** Please refer to Technical Data Sheet for further information.*****Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**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)**Legend** See section 16**Derived No Effect Level (DNEL)** ***

Version EU

SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

DNEL Worker (Industrial/Professional)***

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased*** 68784-26-9	80 mg/kg Dermal 167 mg/m ³ Inhalation		20.8 mg/kg Dermal 70.52 mg/m ³ Inhalation	
Phenol, dodecyl-, branched*** 121158-58-5	44.18 mg/m ³ Inhalation 166 mg/kg Dermal		1.7621 mg/m ³ Inhalation 0.25 mg/kg Dermal	

DNEL Consumer***

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased*** 68784-26-9	0.167 mg/m ³ Inhalation 40 mg/kg Dermal 50 mg/kg Oral		10.42 mg/kg Dermal 52.6 mg/m ³ Inhalation 5 mg/kg Oral	
Phenol, dodecyl-, branched*** 121158-58-5	13.26 mg/m ³ Inhalation 50 mg/kg Dermal 1.26 mg/kg Oral		0.79 mg/m ³ Inhalation 0.075 mg/kg Dermal 0.075 mg/kg Oral	

Predicted No Effect Concentration (PNEC) ***

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased*** 68784-26-9	0.5 mg/l fw 0.04 mg/l mw	43500 mg/kg fw 3480 mg/kg mw	8850 mg/kg		100 mg/l***	
Phenol, dodecyl-, branched*** 121158-58-5	0.000074 mg/l fw 0.0000074 mg/l mw 0.00037 mg/l or	0.226 mg/kg dw fw 0.0266 mg/kg dw mw	0.118 mg/kg dw		100 mg/l	4 mg/kg food

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 ITSELF. 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

Version EU

SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

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.***

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

limpid***

Color

yellow***

Physical State @20°C

liquid***

Odor

Characteristic***

Odor Threshold

No information available

Property
Values
Remarks
Method
pH

Not applicable***

Melting point/range

No information available***

Boiling point/boiling range

No information available***

Flash point ***

>*** 230*** °C***

Cleveland Open Cup (COC)***

>*** 446*** °F***

Cleveland Open Cup (COC)***

Evaporation rate

No information available***

Flammability Limits in Air

upper ***

No information available***

Lower ***

No information available***

Vapor Pressure

No information available***

Vapor density

No information available***

Relative density ***

*** 0.904***

@ 15 °C***

Density

904*** kg/m³***

@ 15 °C***



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

Water solubility	Insoluble***	
Solubility in other solvents	No information available***	
logPow	No information available***	
Autoignition temperature	No information available***	
Decomposition temperature	No information available	
Viscosity, kinematic ***	*** 140*** mm ² /s***	@ 40 °C *** ISO 3104 ***
Explosive properties	Not explosive***	
Oxidizing 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 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. Phosphorous oxides. Mercaptans. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S. Zinc oxides.***

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

Skin contact	. Not classified based on available data. May produce an allergic reaction.***
Eye contact	. Not classified based on available data.***
Inhalation	. Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	. Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***
ATEmix (inhalation-dust/mist)	152.30*** mg/l***
ATEmix (inhalation-vapor)	867.10*** mg/l***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased***	LD50 >5000 mg/kg (Rat - OECD401)	LD50 >4000 mg/kg (Rabbit - OECD 402)	
Phenol, dodecyl-, branched***	LD50 2200 mg/kg (Rat)	LD50 15000 mg/kg (Rabbit - male - OECD402)	

Sensitization

Sensitization	Not classified based on available data. 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.***
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Specific effects

Carcinogenicity	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.***
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Mutagenicity**Germ Cell Mutagenicity**

Not classified based on available data.***

Reproductive toxicity

Not classified based on available data. Contains toxic substance(s) listed as toxic to reproduction.***

Chemical Name	European Union
Phenol, dodecyl-, branched*** 121158-58-5	Repr. 1B (H360F)***

Repeated Dose Toxicity**Target Organ Effects (STOT)**

Specific target organ systemic toxicity (single exposure)	Not classified based on available data.***
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Specific target organ systemic toxicity (repeated exposure)	Not classified based on available data.***
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Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

Aspiration toxicity Not classified based on available data.*****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 based on available data. This product contains one or more components that have a branched alkylphenol impurity which is very toxic to aquatic life (disclosed in section 3). Components containing the impurity have been tested and are not toxic to aquatic life. Therefore, the data in Section 3 for the alkylphenol impurity should not be used to classify the product for aquatic toxicity.***

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
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased*** 68784-26-9	EL50(96h) >500 mg/l (Pseudokirchneriella subcapitata (green algae)- OECD Test Guideline 201)***	EL50 (48h) >1000 mg/l Daphnia magna static (OECD 202)	LL50 (96h) > 1000 mg/l Pimephales promelas semi-static (OECD 203)	
Phenol, dodecyl-, branched*** 121158-58-5	EbC50 (72h) 0.15 mg/l (Scenedesmus subspicatus - OECD 201)	EC50 (48h) 0.037 mg/l (Daphnia magna -OECD 202)	EL50 (96h) 40 mg/l (Pimephales promelas - 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
Phenol, dodecyl-, branched*** 121158-58-5		NOEC (21d) 0.004 mg/l (Daphnia magna - semi static - OECD211)		

Effects on terrestrial organisms

No information available.***

12.2. Persistence and degradability**General Information**

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

No information available.

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

Chemical Name	log Pow
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased*** - 68784-26-9	9.5
Phenol, dodecyl-, branched*** - 121158-58-5	7.14

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. 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.*****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. 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.*****Other information** Refer to section 8 for safety and protective measures for disposal personnel.***

Section 14: TRANSPORT INFORMATION

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

ADR/RID Not regulatedIMDG/IMO Not regulatedICAO/IATA Not regulatedADN Not regulated**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Union

Further information

No information available***

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available*****Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H360F - May damage fertility

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life***

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

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

Version EU



SDS # : 36240

AURELIA TI 4030

Revision Date: 2017-12-19

Version 6.01

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: 2017-12-19
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 the Safety Data Sheet