

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 081991 EVOLUTION 900 SXR 5W-40

Date of the previous version: 2017-05-11 Revision Date: 2017-05-15 Version 5.01

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

COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name EVOLUTION 900 SXR 5W-40

Number BUV Substance/mixture Mixture

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

Identified uses Motor oil.

1.3. Details of the supplier of the safety data sheet

Supplier TOTAL LUBRIFIANTS

562 Avenue du Parc de L'ile 92029 Nanterre Cedex

**FRANCE** 

Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

# 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**



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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 Serious eye damage/eye irritation - Category 2 - (H319)

# 2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008



Signal word WARNING

#### **Hazard Statements**

H319 - Causes serious eye irritation

#### **Precautionary Statements**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention\*\*\*

## **Supplemental Hazard Statements**

EUH 208 - Contains C14-16-18 Alkyl phenol 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

**Hazardous ingredients** 

Chemical Name	EC-No	REACH registration	CAS-No	Weight %	Classification (Reg. 1272/2008)
		No			



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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based		01-2119474889-13	72623-87-1	30-<40	Asp. Tox. 1 (H304)
bis(nonylphenyl)amine	253-249-4	01-2119488911-28	36878-20-3	1-<2.5	Aquatic Chronic 4 (H413)
C14-16-18 Alkyl phenol	931-468-2	01-2119498288-19	۸	1-<2.5	STOT RE 2 (H373) Skin Sens. 1 (H317)
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	298-577-9	01-2119543726-33	93819-94-4	1-<2.5	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

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** Causes serious eye irritation.

**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.

# 4.3. Indication of any immediate medical attention and special treatment needed



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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.

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.

6.4. Reference to other sections



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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 bunded 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)**

#### **DNEL Worker (Industrial/Professional)**

Chemical Name	Chart tarm avatamia	Short term, local effects	Long torm gyatamia	Long term, local effects
Chemical Name	Snort term. Systemic	ionort term, local effects	Long term. Systemic	Long term, local effects



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	effects	effects	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based 72623-87-1			5.4 mg/m³/8h (aerosol - inhalation)
bis(nonylphenyl)amine 36878-20-3		0.62 mg/kg bw/day Dermal 4.37 mg/m³ Inhalation	
C14-16-18 Alkyl phenol		1.17 mg/m³ (inhalation) 0.30 mg/kg bw/day (dermal)	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) 93819-94-4		0.58 mg/kg Dermal 8.31 mg/m³ Inhalation	

**DNEL Consumer** 

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based 72623-87-1				1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation)
bis(nonylphenyl)amine 36878-20-3			0.31 mg/kg bw/day Dermal 1.09 mg/m³ Inhalation 0.31 mg/kg bw/day Oral	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) 93819-94-4			0.29 mg/kg Dermal 2.11 mg/m³ Inhalation 0.24 mg/kg Oral	

# Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Lubricating oils						9.33 mg/kg food
(petroleum),						
C20-50,						
hydrotreated neutral						
oil-based						
72623-87-1						
bis(nonylphenyl)ami	0.1 mg/l fw	132000 mg/kg dw	263000 mg/kg dw		1 mg/l	
ne	0.01 mg/l mw	fw				
36878-20-3	1 mg/l or	13200 mg/kg dw				
		mw				
C14-16-18 Alkyl	0.100 mg/l (fw)	4266.16 mg/kg	852.58 mg/kg soil		100 mg/l	
phenol	0.010 mg/l (mw)	sediment dw (fw)	dw			
^	1 mg/ (or)	426.62 mg/kg				
		sediment dw				



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		(mw)			
Zinc	0.004 mg/l fw	0.0116 mg/kg dw	0.00528 mg/kg	100 mg/l	10.67 mg/kg food
bis[O-(6-methylhept	0.0046 mg/l mw	fw	soil dw	_	
yl)]	0.021 mg/l or	0.00116 mg/kg			
bis[O-(sec-butyl)]	_	dw mw			
bis(dithiophosphate)					
93819-94-4					

# 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

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



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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

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

pHMelting point/rangeNot applicableNot applicable

Boiling point/boiling range

No information available

Flash point > 220 °C > 428 °F

Evaporation rate

No information available

Flammability Limits in Air

No information available

upperNo information availableLowerNo information availableVapor PressureNo information availableVapor densityNo information available

Vapor densityNo informationRelative density0.851 - 0.861@ 15 °C

Density 851 - 861 kg/m³ @ 15 °C Water solubility 851 - 861 kg/m³

Solubility in other solvents Soluble in many common

organic solvents

logPowNo information availableAutoignition temperatureNo information available

**Decomposition temperature**No information available

Viscosity, kinematic 89 mm2/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.



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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. Other

decomposition products.

# 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.

**Eye contact** . Causes serious eye irritation.

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 (oral)** 13,921.00 mg/kg

ATEmix (dermal) 13,549.00 mg/kg

ATEmix (inhalation-gas) > 20,000.00 ppm ATEmix (inhalation-dust/mist) 14.40 mg/l ATEmix (inhalation-vapor) > 20.00 mg/l

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating oils (petroleum), C20-50,	LD50 > 5000 mg/kg bw (rat -	LD50 > 5000 mg/kg bw (rabbit -	LC50 (4h) > 5 mg/l (aerosol) (rat -
hydrotreated neutral oil-based	OECD 401)	OECD 402)	OECD 403)
bis(nonylphenyl)amine	LD50 > 5000 mg/kg (Rat - OECD	LD50 > 2000 mg/kg (Rat - OECD	
	401)	402)	
C14-16-18 Alkyl phenol	LD50 2000 mg/kg bw (rat)	LD50 2000 mg/kg bw (rat)	



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Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)
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**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.

Specific effects

Not classified based on available data. During use in engines, contamination of oil with low Carcinogenicity

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.

Mutagenicity

**Germ Cell Mutagenicity** 

Not classified based on available data. Not classified based on available data.

Not classified based on available data. Reproductive toxicity

**Repeated Dose Toxicity** 

Not classified based on available data. Subchronic toxicity

**Target Organ Effects (STOT)** 

Not classified based on available data. **Target Organ Effects (STOT)** 

Specific target organ systemic toxicity (single exposure)

Not classified based on available data.

Specific target organ systemic toxicity (repeated exposure)

Not classified based on available data.

**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.

# Acute aquatic toxicity - Product Information

No information available.



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# Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates	-	microorganisms
Lubricating oils (petroleum),	EL50 (48h) > 100 mg	EL50 (48h) > 10000 mg/l	LL50 (96h) > 100 mg/l	
C20-50, hydrotreated neutral	(Pseudokirchnerella	(Daphnia magna - OECD	(Oncorhynchus mykiss -	
oil-based	subcapitata - OECD 201)	202)	OECD 203)	
72623-87-1	,	LL50 (24h) > 10000 mg/l		
		(Gammarus pulex - OECD		
		202)		
		LL50 (48h) > 10000 mg/l		
		(Gammarus pulex - OECD		
		202)		
		LL50 (72h) > 10000 mg/l		
		(Gammarus pulex - OECD		
		202)		
		LL50 (96h) > 10000 mg/l		
		(Gammarus pulex - OECD		
		202)		
bis(nonylphenyl)amine	EC50 (72h) > 100 mg/l	EC50 (48h) > 100 mg/l	LC50 (96h) > 100 mg/l	
36878-20-3	(Desmodesmus subspicatus		(Brachyanio rerio - OECD	
	- OECD 201)	202)	203)	
C14-16-18 Alkyl phenol	·	EC50(48h) > 100 mg/l	•	
^ .		(Daphnia magna - static -		
		OECD202)		
Zinc bis[O-(6-methylheptyl)]	EbC50 (96h) 2.1 mg/l	EL50 (48h) 5.4 mg/l Daphnia	LC50 (96h) 4.5 mg/l	
bis[O-(sec-butyl)]	Selenastrum capricornutum	magna (OECD 202)	Oncorhynchus mykiss	
bis(dithiophosphate)	(OECD 201)		(OECD 203)	
93819-94-4	, ,		` '	

# 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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based 72623-87-1	` ,	NOEL (21d) 10 mg/l (Daphnia magna - OECD 211)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) NOEL (96h) > 100 mg/l (Pimephales promelas - OECD 203)	

# Effects on terrestrial organisms

No information available.

# 12.2. Persistence and degradability

#### **General Information**

No information available.

# 12.3. Bioaccumulative potential



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**Product Information** No information available.

logPow No information available

**Component Information** 

Chemical Name	log Pow
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based -	4.1
72623-87-1	
bis(nonylphenyl)amine - 36878-20-3	7.7
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) -	0.9
93819-94-4	

### 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

ADR/RID Not regulated



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IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN 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

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed

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

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



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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:** 2017-05-15

**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**