

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**SDS #:** 081070

# MAZDA ORIGINAL OIL ULTRA DPF 5W-30

Date of the previous version: 201	5-10-02 <b>Revision Date:</b> 2016-01-07	Version 3.01
Section 1: IDENTIFICATION COMPANY/UNDERTAKING	N OF THE SUBSTANCE/MIXTURE AND OF THE	
1.1. Product identifier		
Product name Number Substance/mixture	MAZDA ORIGINAL OIL ULTRA DPF 5W-30 7I7 Mixture	
1.2. Relevant identified us	ses of the substance or mixture and uses advised against	t
Identified uses	Motor oil.	
1.3. Details of the supplie	r of the safety data sheet	
Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex	

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

#### +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)

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 not classified as dangerous according to Regulation (EC) No. 1272/2008



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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\*\*\*

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 ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated heavy paraffinic***	265-157-1	01-2119484627-25	64742-54-7	50 - 70	Asp. Tox. 1 (H304)
bis(nonylphenyl)amine***	253-249-4	01-2119488911-28	36878-20-3	1 - 5	Aquatic Chronic 4 (H413)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts***	283-392-8	01-2119493626-26	84605-29-8	1 - 2.4	Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Irrit. 2 (H315)
Diphenylamine***	204-539-4	no data available	122-39-4	0.1 - 0.24	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT RE 2 (H373) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)



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Phenol, dodecyl-,	310-154-3	01-2119513207-49	121158-58-5	0.01 - 0.09	Aquatic Acute 1 (H400)
branched***					Aquatic Chronic 1 (H410)
					Eye Irrit. 2 (H319)
					Repr. 2 (H361f)
					Skin Irrit. 2 (H315)

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	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
4.2. Most important sympt	oms and effects, both acute and delayed
Eye contact	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
Skin contact	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
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.
4.3. Indication of immedia	te 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	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 arisi	ng 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-fighter	<u>S</u>
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 RE	ELEASE 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 precau	utions
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and materia	Is for containment and cleaning up
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4. Reference to other se	ections
Personal Protective Equipment	See Section 8 for more detail.
Waste treatment	See section 13.
Section 7: HANDLING AND	STORAGE
7.1. Precautions for safe I	nandling



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Advice on safe handling	When using, do not eat, drink or smoke. 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: Ground/bond containers, tanks and transfer/receiving equipment.
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. Wash hands before breaks and immediately after handling the product. 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 st	orage, 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. Protect from frost, heat and sunlight. Protect from moisture.
Materials to Avoid	Strong oxidizing agents.
7.3. Specific end uses	

### Specific use(s)

No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limitsMineral oil mist:<br/>USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH<br/>(TLV) TWA 5 mg/m³ (highly refined)LegendSee 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 heavy paraffinic*** 64742-54-7				5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation)
bis(nonylphenyl)amine*** 36878-20-3			0.62 mg/kg bw/day Dermal 4.37 mg/m³ Inhalation	



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Phosphorodithioic acid,			8.31 mg/m <sup>3</sup> Inhalation	
mixed			12.1 mg/kg Dermal	
O,O-bis(1,3-dimethylbutyl				
and iso-Pr) esters, zinc				
salts***				
84605-29-8				
Phenol, dodecyl-,	166 mg/kg bw/day		0.25 mg/kg bw/day	
branched***	Dermal		Dermal	
121158-58-5	44.18 mg/m <sup>3</sup> Inhalation		1.7621 mg/m <sup>3</sup> Inhalation	
DNEL Consumer		-		
Chemical Name		Short term, local effects		Long term, local effects
	effects		effects	
Distillates (petroleum),				1.2 mg/m <sup>3</sup> /24h (aerosol -
hydrotreated heavy				inhalation)
paraffinic***				
64742-54-7				
bis(nonylphenyl)amine***			0.31 mg/kg bw/day	
36878-20-3			Dermal	
			1.09 mg/m <sup>3</sup> Inhalation	
			0.31 mg/kg bw/day Oral	
Phosphorodithioic acid,			2.11 mg/m <sup>3</sup> Inhalation	
mixed			6.1 mg/kg bw/day Dermal	
O,O-bis(1,3-dimethylbutyl			0.24 mg/kg Oral	
and iso-Pr) esters, zinc				
salts***				
84605-29-8			0.075	
Phenol, dodecyl-,	50 mg/kg bw/day Dermal		0.075 mg/kg bw/day	
branched*** 121158-58-5	13.26 mg/m <sup>3</sup> Inhalation		Dermal	
121158-58-5	1.26 mg/kg bw/day Oral		0.79 mg/m <sup>3</sup> Inhalation	
			0.075 mg/kg bw/day Oral	

# Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
bis(nonylphenyl)ami ne*** 36878-20-3	0.1 mg/l fw 0.01 mg/l mw 1 mg/l or	132000 mg/kg dw fw 13200 mg/kg dw mw	263000 mg/kg dw		1 mg/l	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethy Ibutyl and iso-Pr) esters, zinc salts*** 84605-29-8	0.004 mg/l fw 0.0046 mg/l mw 0.045 mg/l or		0.0548 mg/kg dw		100 mg/l	10.67 mg/kg food
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 fw dw 0.0266 mg/kg mw dw	0.118 mg/kg dw		100 mg/l	4 mg/kg food

8.2. Exposure controls



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Occupational Exposure Controls		
Engineering Measures	Apply technical measures to comply with the occupational exposure li confined spaces (tanks, containers, etc.), ensure that there is a supply breathing and wear the recommended equipment.	
Personal Protective Equipment		
General Information	If the product is used in mixtures, it is recommended that you contact protective equipment suppliers. These recommendations apply to the	
Respiratory protection	None under normal use conditions. When workers are facing concentre exposure limit they must use appropriate certified respirators. Respirative filter for vapour/particulate (EN 14387). Type A/P1. The use of breathin comply strictly with the manufacturer's instructions and the regulations choices and uses.***	tor with combination ing apparatus must
Eye Protection	Tightly fitting safety goggles. Safety glasses with side-shields.	
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long slee	eved clothing.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of with the product, it is recommended to wear gloves complying with EN standards, protecting at least for 480 minutes and having a thickness. These values are indicative only. The level of protection is provided by glove, its technical characteristics, its resistance to the chemicals to b appropriateness of its use and its replacement frequency.***	V 420 and EN 374 of 0,38 mm at least. y the material of the

#### **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 Color Physical State @20°C Odor Odor Threshold		limpid*** brown liquid Characteristic No information available	
<u>Property</u> pH Melting point/range Boiling point/boiling range	<u>Values</u>	Remarks Not applicable No information available No information available***	<u>Method</u>



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Flash point	<b>228 °C</b> 442 °F		ASTM D 92 ASTM D 92
Evaporation rate Flammability Limits in Air upper Lower Vapor Pressure Vapor density Relative density Density Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	0.854 854 kg/m <sup>3</sup> 61.89 mm2/s 10.4 - 11 mm2/s Not explosive Not applicable	No information available No information available No information available No information available No information available @ 15 °C @ 15 °C Insoluble No information available No information available No information available @ 40 °C @ 100 °C	ISO 3104 ISO 3104
9.2. Other information			
Freezing Point		No information available	
Section 10: STABILITY AND	REACTIVITY		
10.1. Reactivity			
General Information	No information available		
10.2. Chemical stability			
Stability	Stable under recommen	ded storage conditions.	
10.3. Possibility of hazardo	ous reactions		
Hazardous Reactions	None under normal proc	essing.	
10.4. Conditions to Avoid			
Conditions to Avoid	Heat (temperatures abo	ve flash point), sparks, ignition p	ooints, flames, static electricity.
10.5. Incompatible Materia	als		
Materials to Avoid	Strong oxidizing agents.		



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#### 10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

### Acute toxicity Local effects Product Information

Skin contact	. Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
Eye contact	. Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
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 heavy paraffinic***	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat · OECD 403)
bis(nonylphenyl)amine***	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts***	LD50 3200 mg/kg (Rat - OECD 401)	LD50 > 2002 mg/kg (Rat - OECD 402)	
Diphenylamine***	LD50 600 mg/kg (Rat - male)	ATE (Cat 3)	ATE (Cat 3)
Phenol, dodecyl-, branched***	LD50 2700 mg/kg (Rat)	LD50 > 3160 mg/kg (Rat)	
Sensitization			

#### Sensitization

Mutagenicity

Not classified as a sensitizer.

Specific effects

Carcinogenicity

This product is not classified carcinogenic. 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. This product is not classified as mutagenic.



**Reproductive toxicity** 

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This product does not present any known or suspected reproductive hazards. Contains a known or suspected reproductive toxin.\*\*\*

Chemical Name		European Union	
Phenol, dodecyl-,		Repr. 2 (H361f)	
121158-	58-5		
Repeated Dose Toxicity			
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects Characteristic skin lesions (pimples) may develop following pr exposures (contact with contaminated clothing).			

### Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified. 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 aquatic environmental hazard classification is required.\*\*\*

#### 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 heavy paraffinic*** 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
bis(nonylphenyl)amine*** 36878-20-3	EC50 (72h) > 100 mg/l (Desmodesmus subspicatus - OECD 201)	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	LC50 (96h) > 100 mg/l (Brachyanio rerio - OECD 203)	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts*** 84605-29-8	ErC50 (72h) 24 mg/l (Desmodesmus subspicatus - OECD 201)	EL50 (48h) 23 mg/l (Daphnia magna - OECD 202)	LL50 (96h) 4.5 mg/l (Oncorhynchus mykiss - OECD 203)	
Diphenylamine*** 122-39-4	EC50 (72h) = 1.51 mg/l (Algae)	EC50 (48h) 0.31 mg/l (Cladocère)	LC50 (48h) 2.2 mg/l	EC50 = 4.77 mg/L 30 min EC50 = 2.81 mg/L 5 min EC50 = 3.46 mg/L 15 min



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Phenol, dodecyl-,	EbC50 (72h) 0.15 mg/l	EC50(48h) 0.037 mg/l	EL50(96h) 40 mg/l	
branched***	(Scenedesmus subspicatus -	(Daphnia magna - static -	Pimephales promelas	
121158-58-5	OECD 201)	OECD 202)	semi-static (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
Distillates (petroleum), hydrotreated heavy paraffinic*** 64742-54-7		NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Phenol, dodecyl-, branched*** 121158-58-5		NOEC(21d) 0.0037 mg/l (Daphnia magna - semi-static - OECD 211)		

#### Effects on terrestrial organisms

No information available.

## 12.2. Persistence and degradability

#### **General Information**

No information available.

### 12.3. Bioaccumulative potential

#### **Product Information**

No information available.

#### logPow No information available

Component Information	
Chemical Name	log Pow
Distillates (petroleum), hydrotreated heavy paraffinic*** - 64742-54-7	-
bis(nonylphenyl)amine*** - 36878-20-3	7.7
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts*** - 84605-29-8	0.56
Diphenylamine*** - 122-39-4	3.4
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	Insoluble. The product spreads on the surface of the water.



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12.5. Results of PBT and	vPvB assessment				
PBT and vPvB assessment	No information available.				
12.6. Other adverse effec	ts				
General Information	No information available.				
Section 13: DISPOSAL CON	Section 13: DISPOSAL CONSIDERATIONS				
13.1. Waste treatment me	ethods				
Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in a Directives on waste and hazardous waste. Dispose of in acco Where possible recycling is preferred to disposal or incineration	ordance with local regulations.			

sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the<br/>environment. Mixture with other waste types such as solvents, brake- and cooling liquids is<br/>forbidden.Contaminated packagingEmpty containers should be taken to an approved waste handling site for recycling or<br/>disposal.EWC Waste Disposal No.The following Waste Codes are only suggestions:. 13 02 05. According to the European<br/>Waste Catalogue, Waste Codes are not product specific, but application specific. Waste<br/>codes should be assigned by the user based on the application for which the product was

#### Section 14: TRANSPORT INFORMATION

used.

ADR/RID	Not regulated
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



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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

H301 - Toxic if swallowed

H304 - May be fatal if swallowed and enters airways

H311 - Toxic in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

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

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

#### Abbreviations, acronyms

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material OECD = Organization for Economic Co-operation and Development bw = body weightbw/day = body weight/day GLP = Good Laboratory Practice fw = fresh water mw = marine water or = occasional release dw = dry weight NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration ACGIH = American Conference of Governmental Industrial Hygienists IARC = International Agency for Research of Cancer DNEL = Derived No Effect Level PNEC = Predicted No Effect Concentration LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals 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 LL = Lethal Loading NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level

NOAEL = No Observed Adverse Effect Level

EC x = Effect Concentration associated with x% response



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Legend Section 8						
TWA: Time	Weight Average					
STEL: Shor	rt Time Exposure Limit					
PEL: Permi	ssible exposure limit					
REL: Recor	mmended exposure limit					
TLV: Thresl	hold Limit Values					
+	Sensitizer	*	Skin designation			
**	Hazard Designation	C:	Carcinogen			
M: Mutagen R: Toxic to reproduct						
Revision D	ate: 2016-01-07					

Revision Date: 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