according to Regulation (EC) No 1907/2006

ADDINOL	Super	Tractor	MU	1035
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

ADDINOL Super Tractor MU 1035

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

### Use of the substance/mixture

Motor oil. Gearbox oil. Hydraulic fluid(s) and filler(s).

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer		
Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-0	Telefax:+49 (0) 3461 845-555
E-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	
Supplier		
Company name:	GEM OILS LIMITED	
Place:	IRL-H12K298 Regaskin Co. Cavan	
Telephone:	+353 49 4378116	Telefax: +353 49 4368329
E-mail:	sales@gemoils.ie	
Contact person:	GEM OILS LIMITED	Telephone: +353 49 4378116
E-mail:	sales@gemoils.ie	
Internet:	https://gemoils.ie/	
1.4. Emergency telephone	Healthcare Professionals: +353 (1) 809	2566 (24 hour service)
numbori		. ,

#### number:

SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## 2.2. Label elements

## Regulation (EC) No 1272/2008

### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 P501 Avoid release to the environment.

Dispose of contents/container to industrial incineration plant.

#### Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

## 2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Spilled product must not leak into the ground.

Do not allow uncontrolled leakage of product into the environment.

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## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## **Relevant ingredients**

CAS No	Chemical name	Quantity			
	EC No	Index No	REACH No		
	Classification (Regulation (EC) N	o 1272/2008)	· · ·		
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis	(dithiophosphate)		1 - < 2.5 %	
	224-235-5	01-2119493635-27			
	Eye Dam. 1, Aquatic Chronic 2; H				
	2-tetradecyloxirane, reaction prod	0.3 - < 0.5 %			
	701-392-2		01-2119976364-28		
	Skin Sens. 1B; H317		•		
121158-58-5	Phenol, dodecyl-, branched	< 0.1 %			
	310-154-3	604-092-00-9	01-2119513207-49		
	Repr. 1B, Skin Corr. 1C, Eye Dan H400 H410				

## Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity				
	Specific Conc. Limits, M-factors and ATE						
4259-15-8	224-235-5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	1 - < 2.5 %				
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 3100 mg/kg Eye Dam. 1; H318: >= 50 - 100 Eye Irrit. 2; H319: >= 2,5 - < 50					
	701-392-2	2-tetradecyloxirane, reaction products with boric acid	0.3 - < 0.5 %				
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 16000 mg/kg						
121158-58-5	310-154-3	Phenol, dodecyl-, branched	< 0.1 %				
		= ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 c 1; H410: M=10					

#### **Further Information**

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

## After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

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Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NOx). carbon black.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

#### **SECTION 6: Accidental release measures**

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

#### General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

## 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Section 12: Ecological Information (non-mandatory) Disposal: see section 13

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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#### Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep/Store only in original container.

## Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Keep away from: Oxidizing agent

#### Further information on storage conditions

Recommended storage temperature: 5 - 40°C Protect against: heat. UV-radiation/sunlight. frost.

## 7.3. Specific end use(s)

Further information: see technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)			
Worker DNEL	., long-term	dermal	systemic	9,6 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	1,67 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,19 mg/kg bw/day
Worker DNEL	., long-term	inhalation	systemic	6,6 mg/m³
	2-tetradecyloxirane, reaction products with boric acid			
Worker DNEL	., long-term	dermal	local	0,09 mg/cm²
Consumer DN	NEL, long-term	dermal	local	4,68 mg/cm <sup>2</sup>
121158-58-5	Phenol, dodecyl-, branched			
Worker DNEL	., acute	inhalation	systemic	44,18 mg/m <sup>3</sup>
Worker DNEL	., long-term	dermal	systemic	0,25 mg/kg bw/day
Worker DNEL	., acute	dermal	systemic	166 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	0,79 mg/m³
Consumer DN	NEL, acute	inhalation	systemic	13,26 mg/m <sup>3</sup>
Consumer DN	NEL, long-term	dermal	systemic	0,075 mg/kg bw/day
Consumer DN	IEL, acute	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,075 mg/kg bw/day
Consumer DN	IEL, acute	oral	systemic	1,26 mg/kg bw/day

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#### **PNEC** values

CAS No	Substance					
Environmenta	l compartment	Value				
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)					
Freshwater		0,004 mg/l				
Freshwater (ir	Freshwater (intermittent releases) 0,04					
Marine water		0,0046 mg/l				
Freshwater se	ediment	0,322 mg/kg				
Marine sedime	ent	0,032 mg/kg				
Secondary po	isoning	8,33 mg/kg				
Micro-organis	ms in sewage treatment plants (STP)	3,8 mg/l				
Soil		0,062 mg/kg				
	2-tetradecyloxirane, reaction products with boric acid					
Freshwater		1 mg/l				
Freshwater (ir	1 mg/l					
Marine water	0,1 mg/l					
Freshwater se	ediment	42700 mg/kg				
Marine sedime	ent	4270 mg/kg				
Micro-organis	ms in sewage treatment plants (STP)	100 mg/l				
Soil		8540 mg/kg				
121158-58-5	Phenol, dodecyl-, branched					
Freshwater		0,000074 mg/l				
Freshwater (ir	ntermittent releases)	0,00037 mg/l				
Marine water		0,000007 mg/l				
Freshwater se	ediment	0,226 mg/kg				
Marine sediment 0,						
Secondary po	isoning	4 mg/kg				
Micro-organis	ms in sewage treatment plants (STP)	100 mg/l				
Soil		0,118 mg/kg				

## Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup>

The product does not contain any relevant quantities of substances with legally established exposure limitation. The product does not contain any relevant quantities of substances with legally established exposure limitation.

## 8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Individual protection measures, such as personal protective equipment

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## Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN ISO 16321

## Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	brown		
Odour:	like: mineral oil.		
Odour threshold:	not determined		
			Test method
Melting point/freezing point:		No data available	
Boiling point or initial boiling point and		not determined	
boiling range:			
Flammability:		No data available	
Lower explosion limits:		No data available	
Upper explosion limits:		No data available	
Flash point:		235 °C	DIN EN ISO 2592
Auto-ignition temperature:		not determined	
Decomposition temperature:		No data available	
pH-Value:		not applicable	
Viscosity / kinematic:		11,6 mm²/s	ASTM D 7042
(at 100 °C)			
Water solubility:		virtually insoluble	
Solubility in other solvents			
No data available			
Partition coefficient n-octanol/water:		No data available	
Vapour pressure:		No data available	
Density (at 15 °C):		0,862 g/cm <sup>3</sup>	DIN 51757
Relative vapour density:		No data available	
Particle characteristics:		No data available	
.2. Other information			

#### 9.2. Other information

Information with regard to physical hazard classes

according to Regulation (EC) No 1907/2006

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Explosive properties		
No data available		
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Pour point:	-36 °C	
SECTION 10: Stability and reactivity	,	

#### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

## 10.5. Incompatible materials

Oxidising agent, strong; hydrocarbons, halogenated.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NOx). carbon black.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met. Mixture not tested.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

## according to Regulation (EC) No 1907/2006

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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)							
	oral	LD50 mg/kg	3100	Rat	Study report (1975)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1975)	OECD Guideline 402		
	2-tetradecyloxirane, reaction products with boric acid							
	oral LD50 mg/kg		> 16000 Rat	Rat	Study report (1981)	other: Section 772.112-21 CFR 40.		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2012)	OECD Guideline 402		
121158-58-5	Phenol, dodecyl-, bra	nched						
	oral	LD50 mg/kg	2100	Rat	Publication (1978)	OECD Guideline 401		
	dermal	LD50 mg/kg	ca. 15000	Rabbit	Study report (1968)	OECD Guideline 402		

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

#### Endocrine disrupting properties

not applicable

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects. Mixture not tested.

## according to Regulation (EC) No 1907/2006

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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)							
	Acute fish toxicity	LL50	4,4 mg/l	96 h	Oncorhynchus mykiss	Study report (2002)	OECD Guideline 203	
	Acute algae toxicity	ErC50	410 mg/l	72 h	Desmodesmus subspicatus	Study report (2004)	OECD Guideline 201	
	Acute crustacea toxicity	EL50	75 mg/l	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202	
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211	
	2-tetradecyloxirane, react	ion product	s with boric a	cid				
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Raphidocelis subcapitata	Study report (2012)	OECD Guideline 201	
	Acute crustacea toxicity	EL50 mg/l	> 100	48 h	Daphnia magna	Study report (2012)	OECD Guideline 202	
	Fish toxicity	NOEC mg/l	> 100	33 d	Pimephales promelas	REACh Registration Dossier	OECD Guideline 210	
	Acute bacteria toxicity	EC50 mg/l()	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (1994)	OECD Guideline 209	
121158-58-5	Phenol, dodecyl-, branche	ed						
	Acute fish toxicity	LL50	40 mg/l	96 h	Pimephales promelas	Study report (1994)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	0,15	72 h	Desmodesmus subspicatus	Study report (2005)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	0,037	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202	
	Crustacea toxicity	NOEC mg/l	0,004	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211	
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	activated sludge of a predominantly industrial sew	Study report (2004)	OECD Guideline 209	

## 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

## 12.3. Bioaccumulative potential

No data available

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow			
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	3,59			
	2-tetradecyloxirane, reaction products with boric acid	>= 6,24 - 9,4			
121158-58-5	Phenol, dodecyl-, branched				
BCF					

CAS No	Chemical name	BCF	Species	Source
121158-58-5	Phenol, dodecyl-, branched	289	Oncorhynchus mykiss	Study report (2006)

according to Regulation (EC) No 1907/2006

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### 12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

#### No data available

### Further information

Do not allow uncontrolled leakage of product into the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

#### List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

#### Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Marine transport (IMDG)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	

according to Regulation (EC) No 1907/2006

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#### Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of these transport regulations.

## **SECTION 15: Regulatory information**

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

### EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

#### National regulatory information

Water hazard class (D):

2 - obviously hazardous to water

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,16.

#### Abbreviations and acronyms

Skin Corr: Skin corrosion Eye Dam: Eye damage Skin Sens: Skin sensitisation Repr: Reproductive toxicity Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM -American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA -National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

according to Regulation (EC) No 1907/2006

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## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)