



**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Granule Grease 2 Plus**

Revision date: 19.01.2026

Product code: 717190

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**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

**Additional advice on labelling**

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

**2.3. Other hazards**

Spilled product must not leak into the ground.  
Do not allow uncontrolled leakage of product into the environment.

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
68425-15-0	Di-Tert-Dodecyl Polysulphide	2.5 - < 5 %
	270-335-7	
	01-2119540516-41	
	Skin Sens. 1B; H317	
12001-85-3	Zinc naphthenate	2.5 - < 5 %
	234-409-2	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411	
1314-13-2	Zinc oxide	0.1 - < 0.3 %
	215-222-5	
	030-013-00-7	
	Aquatic Acute 1, Aquatic Chronic 1; 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	
68425-15-0	270-335-7	Di-Tert-Dodecyl Polysulphide	2.5 - < 5 %
		inhalation: LC50 = > 15,5 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 20008 mg/kg	
12001-85-3	234-409-2	Zinc naphthenate	2.5 - < 5 %
		oral: LD50 = > 2000 mg/kg	
1314-13-2	215-222-5	Zinc oxide	0.1 - < 0.3 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	

**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.

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### 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**

No special measures are necessary.

##### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

##### **After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

##### **After ingestion**

Do NOT induce vomiting.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Sand.

##### **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 (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulphur dioxide (SO<sub>2</sub>).

#### 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. Avoid contact with skin, eyes and clothes. The mixture is classified as hazardous according to Directive 1999/45/EC.

#### 6.2. Environmental precautions

Avoid contact with skin, eyes and clothes. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

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### Other information

Take up mechanically. Dispose of waste according to applicable legislation. 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

Avoid contact with skin, eyes and clothes. No hazardous reaction when handled and stored according to provisions.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### 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 absorption of humidity. Keep container tightly closed in a cool place. Recycle according to official regulations.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent

#### Further information on storage conditions

Protect against: UV-radiation/sunlight. frost.

Recommended storage temperature: 5 - 40°C

### 7.3. Specific end use(s)

Further information: see technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
68425-15-0	Di-Tert-Dodecyl Polysulphide		
Worker DNEL, long-term	inhalation	systemic	23,5 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	33,3 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,66 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	16,6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	5,8 mg/m <sup>3</sup>
12001-85-3	Zinc naphthenate		
Worker DNEL, long-term	inhalation	systemic	1,18 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	3,3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,29 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1,7 mg/kg bw/day

**PNEC values**

CAS No	Substance		Value
68425-15-0	Di-Tert-Dodecyl Polysulphide		
	Freshwater sediment		3,85 mg/kg
	Marine sediment		0,385 mg/kg
	Secondary poisoning		66,7 mg/kg
	Micro-organisms in sewage treatment plants (STP)		1000 mg/l
12001-85-3	Zinc naphthenate		
	Freshwater		0,004 mg/l
	Freshwater (intermittent releases)		0,04 mg/l
	Marine water		0 mg/l
	Freshwater sediment		0,015 mg/kg
	Marine sediment		0,002 mg/kg
	Micro-organisms in sewage treatment plants (STP)		0,6897 mg/l
	Soil		0,001 mg/kg
1314-13-2	Zinc oxide		
	Freshwater		0,0179 mg/l
	Marine water		0,009 mg/l
	Freshwater sediment		182,8 mg/kg
	Marine sediment		201,9 mg/kg
	Micro-organisms in sewage treatment plants (STP)		0,1245 mg/l
	Soil		103,4 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>

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

**8.2. Exposure controls****Individual protection measures, such as personal protective equipment****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: 0.4 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.2 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**

No special measures are necessary.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Paste
Colour:	beige
Odour:	like: mineral oil.
Odour threshold:	not determined

	Test method
Melting point/freezing point:	> 170 °C
Boiling point or initial boiling point and boiling range:	> 250 °C
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	> 200 °C DIN EN ISO 2592
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	415 mm <sup>2</sup> /s DIN 51562 - Base oil
Water solubility:	virtually insoluble
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available

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Density (at 20 °C):	0,945 g/cm <sup>3</sup> DIN 51757
Relative vapour density:	No data available
Particle characteristics:	No data available

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid:

incapable of spontaneous heating.

Gas:

No data available

Oxidizing properties

No data available

## 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

Reacts with: Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulphur dioxide (SO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

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

#### ATEmix calculated

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68425-15-0	Di-Tert-Dodecyl Polysulphide				
	oral	LD50 mg/kg	20008	Rat	<a href="https://www.epa.gov/chemical-research/to">https://www.epa.gov/chemical-research/to</a> other: REACH guidance. Chapter R.6: QSAR
	dermal	LD50 mg/kg	2000	Rat	OECD 402
	inhalation (4 h) vapour	LC50 mg/l	> 15,5	Rat	OECD 403
12001-85-3	Zinc naphthenate				
	oral	LD50 mg/kg	> 2000	Rat	Study report (2018) OECD Guideline 423
1314-13-2	Zinc oxide				
	oral	LD50 mg/kg	> 5000	Mouse	Nanotoxicology, 6(7):746-56 (2012) OECD Guideline 423
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2010) 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**

May cause an allergic skin reaction. (Di-Tert-Dodecyl Polysulphide; Zinc naphthenate)

**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.

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

not applicable

**Further information**

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information. Toxicological data are not available.

**SECTION 12: Ecological information****12.1. Toxicity**

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

Mixture not tested.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
68425-15-0	Di-Tert-Dodecyl Polysulphide					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio (zebrafish)	OECD 203	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 < 0,1 mg/l	48 h	Daphnia magna		
12001-85-3	Zinc naphthenate					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 4 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 35 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	EC50 ( ) 5,2 mg/l	3 h	activated sludge of a predominantly domestic sewage	Water research volume 17, nr10, 1363-136	OECD Guideline 209
1314-13-2	Zinc oxide					
	Acute fish toxicity	LC50 1,793 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 236
	Acute algae toxicity	ErC50 3,35 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 1,7 - < 9 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC >= 0,54 mg/l	32 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Algae toxicity	NOEC 0,08 mg/l	4 d	Dunaliella tertiolecta	Science of the Total Environment 445-446	other: IRSA-CNR
	Crustacea toxicity	NOEC > 78,9 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 ( ) 5,2 mg/l	3 h	activated sludge of a predominantly domestic sewage	Water research volume 17, nr10, 1363-136	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
68425-15-0	Di-Tert-Dodecyl Polysulphide	> 6,2
12001-85-3	Zinc naphthenate	0,8

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**BCF**

CAS No	Chemical name	BCF	Species	Source
68425-15-0	Di-Tert-Dodecyl Polysulphide	< 0,01	Cyprinus carpio	REACH Registration D
12001-85-3	Zinc naphthenate	69,48	Capoeta fusca	Water Qual Expo Heal
1314-13-2	Zinc oxide	1050	Oncorhynchus mykiss	REACH Registration D

**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 UK REACH.

**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.

**Further information**

Do not allow to enter into surface water or drains.

**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**

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; 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)**

- 14.1. UN number or ID number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Inland waterways transport (ADN)**

- 14.1. UN number or ID number:** -  
**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:** -

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**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**

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

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**Other applicable information**

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****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

Regulaciones nacionales

NCh382: Norma Chilena oficial: Sustancias peli- grosas - Terminología y clasificación general NCh2190:

Norma Chilena: Transporte terrestre de mercancías peligrosas - Distintivos para identificación de peligros

NCh2137: Norma Chilena: Sustancias peligrosas - Embalaje/envase - Terminología, clasificación y

designación NCh1411/4: Norma Chilena oficial: Prevención de riesgos - Parte 4: Identificación de riesgos de materiales

NCh2245: Norma Chilena: Hoja de datos de segu- ridad para productos químicos - contenido y or- den de las secciones Decreto Supremo N° 594: Aprueba reglamento sobre condiciones sanitarias y ambientales básicas en los lugares de trabajo

**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): 2,3,7,8,9,10,11,12,13,15.

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**Abbreviations and acronyms**

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

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

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

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

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.

**Further Information**

The mixture is classified as not 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.)*