

Safety Data Sheet according to Regulation (EC)  
No. 1907/2006 (REACH)  
Printed 05.10.2020  
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Version 1.11

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

<b>Name of product</b>	<b>Z 9084 - Special lubricant for SNS Guide elements</b>
<b>Manufacturer/distributor</b>	STRACK NORMA GmbH & Co. KG Königsberger Strasse 11 D- 58511 Lüdenscheid Tel.: 0 23 51 - 87 01 - 0 Fax: 0 23 51 - 87 01 - 100 e-mail: info@strack.de www.strack.de
<b>Emergency advice</b>	Poison Emergency Bonn: In case of poisoning Phone: +49(0)228-19 240
<b>Use of the Substance/Mixture</b>	Lubricant - restricted to professional users

### Section 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard, Cat-egory 3

H412: Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements:

**Labelling (REGULATION (EC) No 1272/2008):**

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:

**Prevention:**

P273 Avoid release to the environment.

**Disposal:**

P501 Dispose of contents/container to an approved waste disposal plant.

**Additional Labelling:**

EUH208 Contains: N-1-naphthylaniline May produce an allergic reaction.

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration No.	Classification	Concentration [%]
triphenyl - phosphate	115-86-6 204-112-2	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 1
N-1-naphthylaniline	90-30-2 201-983-0 01-2119488704-27-xxxx	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46-xxxx	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>=0,1 - < 0,25

For explanation of abbreviations see section 16.

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice:	No hazards which require special first aid measures
If inhaled:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact::	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms:	None known.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: For specialist advice physicians should contact the Poisons Information Service.

## Section 5: FIRE-FIGHTING MEASURES

**5.1. Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3. Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## Section 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Use personal protective equipment.

### 6.2. Environmental precautions

Environmental precautions: If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

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## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling: For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of work-day.

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

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place.

Further information on storage stability: No decomposition if stored and applied as directed.

### 7.3. Specific end uses

Specific use(s): Raw material for industry

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., sum of vapor and aerosols, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
N-1-naphthylaniline	Workers	Inhalation	Long-term systemic effects	0.18 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	44 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.05 mg/kg
	Workers	Dermal	Acute systemic effects	6.67 mg/kg
	General exposures	Inhalation	Long-term systemic effects	0.044 mg/m <sup>3</sup>
	General exposures	Inhalation	Acute systemic effects	33 mg/m <sup>3</sup>
	General exposures	Dermal	Long-term systemic effects	0.03 mg/kg
	General exposures	Dermal	Long-term systemic effects	3.33 mg/kg
	General exposures	Ingestion	Long-term systemic effects	0.03 mg/kg
	General exposures	Ingestion	Acute systemic effects	8 mg/kg

2,6-di-tert-butyl-p-cresol	Workers	Skin contact	0.5 mg/kg
	Workers	Inhalation	3.5 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
N-1-naphthylaniline	Fresh water	0.0002 mg/l
	Marine water	0.00002 mg/l
	Fresh water sediment	0.0344 mg/kg
	Marine sediment	0.00344 mg/kg
	Soil	0.0068 mg/kg
	STP	100 mg/l
2,6-di-tert-butyl-p-cresol	Fresh water	0.000199 mg/l
	Marine water	0.000019 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.04769 mg/kg

### 8.2. Exposure controls:

#### Engineering measures:

Ensure that eyewash stations and safety showers are close to the workstation location.  
Effective exhaust ventilation system.

#### Personal protective equipment

Eye protection:	Eye wash bottle with pure water Tightly fitting safety goggles
Hand protection:	Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.
Skin and body protection:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection:	Not required; except in case of aerosol formation.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	liquid
Odour:	No data available
Odour Threshold:	No data available
pH:	Not applicable
Pour point:	-54 °C No data available
Flash point:	246 °C Method: ASTM D 92

Vapour pressure:	No data available
Density:	No data available
Solubility(ies)	
Water solubility:	No data available
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	
Viscosity, kinematic:	62.1 mm <sup>2</sup> /s (40 °C) Method: ASTM D 445
	11.4 mm <sup>2</sup> /s (100 °C) Method: ASTM D 445

### 9.2. Other information:

Flammability (liquids):	No data available
Oxidising potential:	No information available.

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## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions., No decomposition if used as directed.

### 10.4. Conditions to avoid

Exposure to moisture, contamination

### 10.5. Incompatible materials

Materials to avoid: Strong acids and oxidizing agents

### 10.6. Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon oxides

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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity:	Remarks: Not classified due to lack of data.
Acute inhalation toxicity:	Remarks: Not classified due to lack of data.
Acute dermal toxicity:	Remarks: Not classified due to lack of data.

### Components:

#### **triphenyl phosphate:**

Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg  
Acute inhalation toxicity: LC50 (Rat, male and female): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Acute dermal toxicity: LD50 (Rabbit, male and female): > 7,900 mg/kg

#### **N-1-naphthylaniline:**

Acute oral toxicity: LD50: 1.625 mg/kg  
Acute dermal toxicity: LD50 Dermal (Rabbit): > 5,000 mg/kg

#### **2,6-di-tert-butyl-p-cresol:**

Acute oral toxicity: LD50 (Rat, male and female): > 2,930 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Skin corrosion/irritation**

Skin irritation: Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

### Components:

triphenyl phosphate: Species: rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404 Exposure time: 4 h  
GLP: yes

N-1-naphthylaniline: Species: rabbit  
Result: No skin irritation  
Method: Draize Test

2,6-di-tert-butyl-p-cresol : Species: rabbit  
Result: No skin irritation

### **Serious eye damage/eye irritation**

Eye irritation: Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

### Components:

triphenyl phosphate: Species: rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes

N-1-naphthylaniline: Species: rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

2,6-di-tert-butyl-p-cresol : Species: rabbit  
Result: No skin irritation

### Respiratory or skin sensitization

#### triphenyl phosphate:

Test Type: Maximisation Test  
Species: guinea pig  
Method: OECD Test Guideline 406  
Assessment: Did not cause sensitisation on laboratory animals.  
GLP: yes

#### N-1-naphthylaniline:

Test Type: Maximisation Test  
Species: guinea pig  
Result: Probability or evidence of low to moderate skin sensitisation rate in humans

#### 2,6-di-tert-butyl-p-c

species: guinea pig  
Assessment: Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

#### Germ cell mutagenicity- As-sessment:

Not classified due to lack of data.

#### triphenyl phosphate:

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
Test Type: in vitro assay  
Metabolic activation: with and without metabolic activation  
Result: negative  
Test Type: Unscheduled DNA synthesis assay  
Result: negative

#### Germ cell mutagenicity- As-sessment:

In vitro tests did not show mutagenic effects

#### N-1-naphthylaniline:

Ames test  
Result: negative  
Metabolic activation: with and without metabolic activation  
Test Type: Chinesie Hamster Ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: in vivo assay  
Species: Mouse (male)  
Result: negative

#### Germ cell mutagenicity- As-sessment:

Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### 2,6-di-tert-butyl-p-cresol:

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative



### Gentoxicity in vivo:

Test Type: Unscheduled DNA synthesis assay  
Result: negative

Test Type: In Vitro mammalian Cell Gene Mutation Test  
Result: negative

Test Type: in vivo micronucleus test  
Species: mouse (male and female)  
Cell type: Bone marrow  
Method: Mutagenicity (micronucleus test)  
Result: negative

Test Type: in vivo assay  
Species: rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Result: negative

Germ cell mutagenicity- :  
As-sessment

Animal testing did not show any mutagenic effects.

### Carcinogenicity

#### Product:

Carcinogenicity -  
Assessment:

Not classified due to lack of data

#### Components:

##### **triphenyl phosphate:**

Carcinogenicity -  
Assessment:

Animal testing did not show any carcinogenic effects.

##### **N-1-naphthylaniline:**

Carcinogenicity -  
Assessment:

Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

#### Product:

Reproductive toxicity -  
Assessment:

Not classified due to lack of data.

Components:

triphenyl phosphate:

Reproductive toxicity - Assessment: No toxicity to reproduction

2,6-di-tert-butyl-p-cresol:

Reproductive toxicity - Assessment:

No toxicity to reproduction  
No effects on or via lactation

**STOT - single exposure****Product:**

Assessment: Not classified due to lack of data.

**STOT - repeated exposure****Product:**

Assessment: Not classified due to lack of data.

**Components:****triphenyl phosphate:**

Exposure routes: Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**N-1-naphthylaniline:**

Exposure routes: Oral

Target Organs: Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

**2,6-di-tert-butyl-p-cresol:**

Exposure routes: Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity****Product:**

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

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

Toxicity to fish: Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates:

Remarks: No data available

**Components:****triphenyl phosphate:**Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.78 mg/l  
Exposure time: 96 h  
Test Type: static testLC50 (Oryzias latipes (Orange-red killifish)): 1.2 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 hEC50 : 0.36 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants	NOEC (Green algae ( <i>Scenedesmus subspicatus</i> )): 0.25 - 2.5 mg/l End point: Growth rate Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity): Toxicity to fish (Chronic toxicity):	1 NOEC: 0.037 mg/l Exposure time: 30 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
N-1-naphthylaniline: Toxicity to fish:	LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 0.44 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes
Toxicity to daphnia and other aquatic invertebrates:	EC50 ( <i>Daphnia magna</i> (Water flea)): 0.68 mg/l Exposure time: 48 h Test Type: semi-static test Analytical monitoring: yes
M-Factor (Acute aquatic toxicity):	1
Toxicity to microorganisms:	EC50 (Protozoa): 2 mg/l Exposure time: 48 h EC50 (Bacteria): > 10,000 mg/l Exposure time: 3 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.02 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Analytical monitoring: yes
M-Factor (Chronic aquatic toxicity):	1
<b>2,6-di-tert-butyl-p-cresol:</b> Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.07 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Analytical monitoring: yes GLP: yes

### 12.2 Persistence and degradability

**Product:**

Biodegradability: Result: No data available

**Components:****triphenyl phosphate:**

Biodegradability: Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 83 - 94 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301

**N-1-naphthylaniline:**

Biodegradability: Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

**2,6-di-tert-butyl-p-cresol:**

Biodegradability: Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 50 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d

### 12.3. Bioaccumulative potential

**Product:**

Bioaccumulation: Remarks: No data available#

**Components:****triphenyl phosphate:**

Bioaccumulation: Species: *Oryzias latipes* (Orange-red killifish)  
Exposure time: 18 d  
Temperature: 25 °C  
Concentration: 0.01 mg/l  
Bioconcentration factor (BCF): 144

Partition coefficient: n-octanol/water log Pow: 4.59 - 4.76

**N-1-naphthylaniline:**

Bioaccumulation:

Species: *Cyprinus carpio* (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.1 mg/l  
Bioconcentration factor (BCF): 427 - 2,730

Partition coefficient: n  
-octanol/water

log Pow: 4.28

**2,6-di-tert-butyl-p-cresol:**

Bioaccumulation:

Species: *Cyprinus carpio* (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.05 mg/l  
Bioconcentration factor (BCF): 230 - 2,500

Partition coefficient: n  
-octanol/water

log Pow: 5.1  
GLP: yes

log Pow: 4.2

**12.4. Mobility in soil**

Mobility

Remarks: No data available.

**12.5. Results of PBT- and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6. Other adverse effects**

Additinal ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Section 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product

The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging:

Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### Abschnitt 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### Section 15: REGULATORY INFORMATION

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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59):

This product does not contain sub-stances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV):

Not applicable

Regulation (EC) No 1005/2009 on substances that de

-plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol

-lutants

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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Petroleum products: (a) gasolines and naphthas, (b) kerosenes including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

**The components of this product are reported in the following inventories:**

DSL:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
AICS:	On the inventory, or in compliance with the inventory
NZIoC:	Not in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
KECI:	On the inventory, or in compliance with the inventory
PICCS:	On the inventory, or in compliance with the inventory
IECSC:	On the inventory, or in compliance with the inventory
TCSI:	On the inventory, or in compliance with the inventory
US.TSCA:	All substances listed as active on the TSCA inventory

**15.2. Chemical Safety Assessment**

No information available.

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**SECTION 16: OTHER INFORMATION****Full text of H-Statements**

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.:	Acute toxicity
Aquatic Acute:	Short-term (acute) aquatic hazard
Aquatic Chronic:	Long-term (chronic) aquatic hazard
Skin Sens.:	Skin sensitisation
STOT RE:	Specific target organ toxicity - repeated exposure
DE TRGS 900:	Germany.TRGS 900 - Occupational exposure limit values
DE TRGS 900 / AGW:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labeling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth

rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 3

H412

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN