according to Regulation (EC) No. 1907/2006

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : FLORANID® Starter 18-24-5

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

Use of the : Fertiliser

Substance/Mixture

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

Company : COMPO EXPERT GmbH

Krögerweg 10 D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person

responsible for the SDS

: info@compo-expert.com

## 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h

Telephone: +49 (0) 6132 - 84463

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting

Category 3 effects.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

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## 2.3 Other hazards

None known.

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

## 3.2 Mixtures

Chemical nature : NPK - fertilizer contains:

N,N´-(2-Methylpropyliden)-bis-urea

methylene urea manganese sulphate

iron sulfate zinc sulphate

## **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27- XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	< 10
manganese sulphate	7785-87-7 232-089-9 01-2119456624-35- XXXX	STOT RE 2; H373 Aquatic Chronic 2; H411 Eye Dam. 1; H318	< 1,6
iron (II) sulfate	7720-78-7 231-753-5 01-2119513203-57- XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315  Acute toxicity estimate  Acute oral toxicity: 500 mg/kg	< 3,5

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zinc oxide	1314-13-2	Aquatic Acute 1;	<= 2
	245 222 5	H400	
	215-222-5	Aquatic Chronic 1; H410	
	01-2119463881-32-		
	XXXX		

For explanation of abbreviations see section 16.

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

## 4.1 Description of first aid measures

General advice : Wash hands with water as a precaution.

If inhaled : Move to fresh air in case of accidental inhalation of fumes

from overheating or combustion.

Obtain medical attention.

In case of lung irritation, first treatment with dexametason

aerosol (spray).

In case of skin contact : Wash off with plenty of water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Call a physician immediately.

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

Symptoms : Ingestion may provoke the following symptoms:

Methaemoglobinemia

Inhalation of decomposition products in high concentration

may cause shortness of breath (lung oedema).

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing : Foam

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Dry chemical media

Carbon dioxide (CO2)

Sand

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Can decompose at above 100 °C. Thermal decomposition

products:

Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,

ammonia Isobutyraldehyd

5.3 Advice for firefighters

for firefighters

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

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from children.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

none

**SECTION 7: Handling and storage** 

7.1 Precautions for safe handling

Protect from contamination. Advice on safe handling

Keep away from direct sunlight.

Protect against heat. Protect from moisture.

Advice on protection against

fire and explosion

The product is not flammable. Keep away from sources of ignition - No smoking. Keep away from combustible materials.

Keep away from heat. Risk of explosion if heated under

confinement.

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Hygiene measures : Wash hands before breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: When stored loose do not mix with other fertilizers. Store well away from other substances. Keep away from direct sunlight. Protect against heat. Protect from contamination. Protect from

moisture.

Storage class (TRGS 510) : 13, Non Combustible Solids

Dampness : Keep in a dry place.

#### 7.3 Specific end use(s)

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

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
manganese sulphate	7785-87-7	(Inhalable fraction)	0,5 mg/m3	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			d on the mpliance with
		AGW (Inhalable fraction)	0,5 mg/m3 (Manganese)	DE TRGS 900
Further information	, , ,			
			0,5 mg/m3	
iron (II) sulfate	7720-78-7	TWA	1 mg/m3 (Iron)	GB EH40
zinc oxide	1314-13-2		2 mg/m3	

Contains no substances with occupational exposure limit values.

Mangansulfat	7785-87-7,	manganese: 20 μg/l	Immediately after	TRGS 903
	7785-87-7	(Blood)	exposure or after	
		(Blood)	working hours, In	
			case of long-term	
			exposition: after	

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		more than one shift	

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3
	Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
	Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
iron (II) sulfate	Workers	Skin contact	Acute effects, systemic effects	2,8 mg/kg
Remarks:	Exposure time	: 24 h	•	
	Workers	Inhalation	Acute effects, systemic effects	9,9 mg/m3
	Workers	Skin contact	Chronic effects, systemic effects	2,8 mg/kg
Remarks:	Exposure time	: 24 h	-	-
	Workers	Inhalation	Chronic effects, systemic effects	9,9 mg/m3
	Consumers	Ingestion	Acute effects, systemic effects	1,4 mg/kg
Remarks:	Exposure time	Exposure time: 24 h		
	Consumers	Skin contact	Acute effects, systemic effects	1,4 mg/kg
Remarks:	Exposure time	: 24 h		•

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	Consumers	Inhalation	Acute effects, systemic effects	2,5 mg/m3
	Consumers	Ingestion	systemic effects, Chronic effects	1,4 mg/kg
Remarks:	Exposure time	: 24 h		
	Consumers	Skin contact	Chronic effects, systemic effects	1,4 mg/kg
Remarks:	Exposure time	: 24 h		•
	Consumers	Inhalation	Chronic effects, systemic effects	2,5 mg/m3
zinc oxide	Workers	Inhalation	Long-term exposure	5 mg/m3
	Workers	Ingestion	Long-term exposure, Systemic effects	0,8 mg/kg
	Workers	Skin contact	Long-term exposure, Systemic effects	83 mg/kg

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

Substance name		Environmental Compartment	Value
ammonium nitrate		Sewage treatment plant	18 mg/l
iron (II) sulfate		Water	
Remarks:	This produ	ict has no known ecotoxicological effects.	
		Behaviour in waste water treatment plants	2483 mg/l
		Fresh water sediment	246000 mg/kg
		Marine sediment	246000 mg/kg
		Soil	276000 mg/kg
zinc oxide		Fresh water	0,0206 mg/l
		Marine water	0,0061 mg/l
	Derivation	of the PNEC, Zinc	
		Fresh water sediment	235,6 mg/l

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Der	Derivation of the PNEC, Zinc				
Marine sediment 113 mg/l					
Derivation of the PNEC, Zinc					
	Soil 106,8 mg/l				
Derivation of the PNEC, Zinc					
Behaviour in waste water treatment plants 0,052 mg/l					
Derivation of the PNEC, Zinc					

## 8.2 Exposure controls

## Personal protective equipment

Eye protection : In case of dust formation:

Tightly fitting safety goggles

Hand protection

Material : Gloves

Skin and body protection : No special protective equipment required.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.

## **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

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

## 9.1 Information on basic physical and chemical properties

Physical state : granular

Colour : various

Odour : odourless

according to Regulation (EC) No. 1907/2006

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Odour Threshold : No data available

pH : ca. 6,2, Concentration: 100 g/l (20 °C)

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not relevant

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Bulk density : ca. 860 kg/m<sup>3</sup>

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not applicable

Particle characteristics

Particle Size Distribution : D50 = 1,2 mm

D50 Tolerance range = 0,9 mm - 1,5 mm

Measurement technique: Optoelectronic measurement

method

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#### 9.2 Other information

No data available

## **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.

Decomposes on heating.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

## 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

## 10.5 Incompatible materials

Materials to avoid : oxidizable substances

Strong acids and strong bases

## 10.6 Hazardous decomposition products

Hazardous decomposition

products

: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,

ammonia

Isobutyraldehyd

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

**Product:** 

Acute oral toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria

are not met.

**Components:** 

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg

Method: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006

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Acute inhalation toxicity : > 88,8 mg/l

Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

manganese sulphate:

Acute oral toxicity : LD50 (Rat): 2.150 mg/kg

iron (II) sulfate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

LD50 (Rat): 657 - 4.390 mg/kg Method: Calculation method

Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : LD50 (Rat): > 1.992 mg/kg

Method: Converted acute toxicity point estimate

zinc oxide:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

## **Product:**

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

## **Components:**

## ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

iron (II) sulfate:

Method: OECD Test Guideline 404

Result: Skin irritation

Remarks: Irritating to skin and mucous membranes

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zinc oxide:

Remarks: non-irritant

#### Serious eye damage/eye irritation

**Product:** 

Species: Rabbit

Method: OECD Test Guideline 405

Result: non-irritant

Remarks: The product was not tested. The statement was derived from products of similar

structure and composition.

#### Components:

#### ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

iron (II) sulfate:

Method: OECD Test Guideline 405

Result: Eye irritation

zinc oxide:

Method: OECD Test Guideline 405

Remarks: non-irritant

#### Respiratory or skin sensitisation

## **Product:**

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

## **Components:**

#### ammonium nitrate:

Result: Does not cause skin sensitisation.

## iron (II) sulfate:

Method: OECD TG 429

Result: Did not cause sensitisation on laboratory animals.

zinc oxide:

Method: OECD Test Guideline 406

Remarks: Did not cause sensitisation on laboratory animals.

## germ cell mutagenicity

#### **Product:**

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Genotoxicity in vitro : Remarks: Based on available data, the classification criteria

are not met.

**Components:** 

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

zinc oxide:

Germ cell mutagenicity-

Assessment

: In vivo tests did not show mutagenic effects

Carcinogenicity

**Product:** 

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

**Components:** 

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

iron (II) sulfate:

Carcinogenicity - : Did not show carcinogenic, teratogenic or mutagenic effects in

Assessment animal experiments.

zinc oxide:

Carcinogenicity - : According to experience not expected

Assessment

Reproductive toxicity

**Product:** 

Effects on fertility

Remarks: Based on available data, the classification criteria

are not met.

**Components:** 

ammonium nitrate:

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

Effects on foetal : Species: Rat

development Remarks: Did not show teratogenic effects in animal

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experiments.

zinc oxide:

Reproductive toxicity - : No toxicity to reproduction

Assessment No experimental indication of genotoxic effects.

STOT - single exposure

**Product:** 

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

**Components:** 

zinc oxide:

Remarks: This information is not available.

STOT - repeated exposure

**Product:** 

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

**Components:** 

iron (II) sulfate:

Remarks: No known effect.

zinc oxide:

Remarks: No known effect.

Repeated dose toxicity

**Components:** 

ammonium nitrate:

Species: Rat

NOAEL: > 1.500 mg/kg Application Route: Oral Exposure time: 28 d

Species: Rat

NOAEL: = 256 mg/kg Application Route: Oral Exposure time: 52 w

Method: OECD Test Guideline 453

Species: Rat

NOAEL: >= 185 mg/kg

Application Route: by inhalation

Exposure time: 2 w

Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

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## iron (II) sulfate:

Species: Rat

NOAEL: 284 - 324 mg/kg Application Route: Oral Exposure time: 90 d

Remarks: Information given is based on data obtained from similar substances.

Species: Rat NOAEL: 100 mg/kg Application Route: Oral Exposure time: 49 d

Application Route: by inhalation

Remarks: This information is not available.

Application Route: Dermal

Remarks: This information is not available.

## **Aspiration hazard**

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

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

No data available

## **Further information**

#### Product:

Remarks: Danger of methaemoglobin formation.

The product was not tested. The statement was derived from products of similar structure and

composition.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: Directive 84/449/EEC, C.2

Toxicity to algae : EC50 (Scenedesmus subspicatus): > 100 mg/l

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Exposure time: 72 h Method: DIN 38412

Components:

ammonium nitrate:

: LC50 (Fish): > 100 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 490 mg/l

Exposure time: 48 h

LC50: 490 mg/l

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l

Exposure time: 10 d

manganese sulphate:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 30 mg/l

iron (II) sulfate:

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: This product has no known ecotoxicological effects.

zinc oxide:

Toxicity to fish : LC50 (Fish): 0,14 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2,2 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0,17 mg/l

> Exposure time: 72 h Test Type: static test

12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical : DOC reduction removability ca. 85 %

Method: OECD 301E/92/69/EWG, C.4-B Remarks: Readily eliminated from water

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**Components:** 

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

iron (II) sulfate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

**Components:** 

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -3,1

iron (II) sulfate:

Bioaccumulation : Remarks: Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among

environmental compartments

: Remarks: Moderately mobile in soils

**Components:** 

iron (II) sulfate:

Distribution among : Medium:Soil environmental compartments Remarks: immobile

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : Remarks: Not applicable

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**Components:** 

iron (II) sulfate:

Assessment : Substance is not very persistent and very bioaccumulative

(vPvB).. Substance is not persistent, bioaccumulative, and

toxic (PBT)..

zinc oxide:

Assessment : Non-classified PBT substance.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

**Product:** 

Additional ecological

information

: Inhibition of degradation activity in activated sludge is not to

be anticipated during correct introduction of low

concentrations.

There is a high probability that the product is acute not

harmful to aquatic organisms.

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.

Dispose of in accordance with local regulations.

Contaminated packaging : Contaminated packaging should be emptied as far as

possible; then it can be passed on for recycling after being

thoroughly cleaned.

**SECTION 14: Transport information** 

14.1 UN number or ID 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

Segregation group : : (-)

Not regulated as a dangerous good

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#### 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Other regulations : This product is subject to Regulation (EU) 2019/1148;

suspicious transactions, disappearance or theft of the product

must be reported to the relevant authority.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this product.

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

## **Full text of H-Statements**

H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

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.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam.Eye Irrit.Eye irritationOx. Sol.Oxidizing solidsSkin Irrit.Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation;

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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 Organisation 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; TECI - Thailand Existing Chemicals 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**

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.

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