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

1.1 Product identifier	
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Trade name

: Complesal® Suprem 21-5-10

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

Use of the Sub- : Fertiliser stance/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)

Not a hazardous substance or mixture.

## 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

## Additional Labelling

EUH210 Safety data sheet available on request.

Further information : German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)



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## 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		, ,
	Registration number		
ammonium nitrate	6484-52-2	Ox. Sol. 3; H272	>= 50 - < 70
	229-347-8	Eye Irrit. 2; H319	
	01-2119490981-27-		
	0050		
Ferrous sulfate monohydrate	17375-41-6	Acute Tox. 4; H302	>= 1 - < 10
	231-753-5	Skin Irrit. 2; H315	
	026-003-00-7	Eye Irrit. 2; H319	
	01-2119513203-57-		
	XXXX	Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
		300,03 mg/kg	
disodium tetraborate pentahydrate		Eye Irrit. 2; H319	>= 0,1 - < 0,3
	215-540-4	Repr. 1B; H360FD	
	005-011-02-9		
	01-2119490790-32-		
	XXXX		

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice

: Move out of dangerous area. Consult a physician.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			ty data sheet to the doctor in attendance. ne victim unattended.
Protection of first-aiders	:	and use the real of the real of the second s	nders should pay attention to self-protection commended protective clothing exposure exists refer to Section 8 for specific ctive equipment.
If inhaled	:		move person into fresh air. ersist, call a physician.
In case of skin contact	:	Wash off with s	soap and water.
In case of eye contact	:	and consult a p	nly with plenty of water for at least 15 minutes physician. persists, consult a specialist.
If swallowed	:	Clean mouth w Obtain medica	/ith water and drink afterwards plenty of water I attention.
Symptoms	:	Methaemoglob	
Symptoms I.3 Indication of any immediate Treatment	: e mec :	Methaemoglob	and special treatment needed
<b>.3 Indication of any immediat</b> Treatment	:	Methaemoglob lical attention a Treat symptom	and special treatment needed
I.3 Indication of any immediate	:	Methaemoglob lical attention a Treat symptom	and special treatment needed
I.3 Indication of any immediate Treatment SECTION 5: Firefighting me	asur	Methaemoglob lical attention a Treat symptom es Water Dry chemical Water mist Use extinguish	and special treatment needed natically.
<ul> <li>Indication of any immediate Treatment</li> <li>SECTION 5: Firefighting me</li> <li>1 Extinguishing media</li> </ul>	asur	Methaemoglob lical attention a Treat symptom es Water Dry chemical Water mist Use extinguish	and special treatment needed natically. ing measures that are appropriate to local cir- nd the surrounding environment.
<ul> <li><b>1.3 Indication of any immediate</b> Treatment</li> <li><b>SECTION 5: Firefighting me</b></li> <li><b>5.1 Extinguishing media</b> Suitable extinguishing media</li> <li>Unsuitable extinguishing</li> </ul>	a :	Methaemoglob <b>lical attention a</b> Treat symptom <b>es</b> Water Dry chemical Water mist Use extinguish cumstances ar High volume w Carbon dioxide Foam Sand	and special treatment needed natically.
<ul> <li><b>3 Indication of any immediate</b> Treatment</li> <li><b>SECTION 5: Firefighting me</b></li> <li><b>5.1 Extinguishing media</b> Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul>	a : m the	Methaemoglob lical attention a Treat symptom es Water Dry chemical Water mist Use extinguish cumstances ar High volume w Carbon dioxide Foam Sand substance or Thermal decor and vapours.	and special treatment needed natically.

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	ucts			Oxides of phosph Sulphur oxides	orus
5.3	Advice	for firefighters			
	Special for firef	protective equipment ighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-
	Further information		:	must not be disch Fire residues and	contaminated fire extinguishing water must accordance with local regulations.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Wash contaminated clothing before re-use.
0
Avoid breathing dust.
For personal protection see section 8.
For disposal considerations see section 13.
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## 6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
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## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

## 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling	: Avoid contact with skin and eyes.
	Wear personal protective equipment.
	Keep away from combustible material.
	Keep away from heat and sources of ignition.
	Smoking, eating and drinking should be prohibited in the application area.
	Dispose of rinse water in accordance with local and national regulations.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		on protection against explosion	:	No special preca	utions required.
ŀ	Hygiene measures		:		food, drink and animal feedingstuffs. Wash ing, drinking, or smoking. Wash hands before end of workday.
7.2 C	onditio	ons for safe storage,	inc	luding any incom	patibilities
-		information on stor- nditions	:		sources of ignition - No smoking. Keep away ht. Protect from moisture. Protect from con-
,	Advice on common storage		:	Keep away from Keep away from	
5	Storage	e class (TRGS 510)	:	5.1C	
	Further age sta	information on stor- bility	:	Protect from frost	, heat and sunlight.
7.3 S	pecific	end use(s)			
	<b>~</b>	( )			

Specific use(s) : Not relevant

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

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
disodium tetra- borate pentahy- drate	12179-04-3	MAK (inhalable fraction)	5 mg/m3	DE DFG MAK		
	Further information: Damage to the embryo or foetus is unlikely when the					
		MAK value or the BAT value is observed				
	AGW (Inhalable 0,5 mg/m3 DE TRGS					
	fraction) (Borate) 900					
	Peak-limit: excursion factor (category): 2;(I)					
	Further information: 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 ef- fects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic	36 mg/m3

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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				effects		
		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	
-	ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg	
-		Workers	Inhalation	Long-term systemic effects	11,167 mg/m3	
		Consumer use	Oral	Long-term systemic effects	6,4 mg/kg	
-		Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg	
		Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg	
-	disodium tetraborate pentahydrate	Workers	Inhalation	Long-term local ef- fects	17,04 mg/m3	
ľ		Workers	Inhalation	Acute local effects	17,04 mg/m3	
		Workers	Inhalation	Long-term systemic effects	9,8 mg/m3	
		Consumers	Oral	Acute systemic ef- fects	1,15 mg/kg bw/day	
-		Consumers	Inhalation	Long-term local ef- fects	3,4 mg/m3	
		Consumers	Oral	Long-term systemic effects	1,15 mg/m3	
		Consumers	Inhalation	Long-term systemic effects	4,9 mg/m3	

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
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg
disodium tetraborate pentahy- drate	Fresh water	2,9 mg/l
	Marine water	2,9 mg/l
	Soil	5,7 mg/l
	Sewage treatment plant	10 mg/l

## 8.2 Exposure controls

Personal protective equipment

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Eye/fa	ace protection	:	Safety glasses wi	th side-shields conforming to EN166	
Ма	protection aterial rective	:	Gloves Equipment should	d conform to EN 374	
Remarks		:	As the product is a mixture of several substances, the dura- bility of the glove materials cannot be calculated in advance and has to be tested before use.		
Skin a	and body protection	: Long sleeved clo		thing	
Respi	iratory protection	:	approved filter.	st or aerosol formation use respirator with an d conform to EN 14387	
Fil	ter type	:	Filter type P		
Prote	ctive measures	:	practice.	ance with good industrial hygiene and safety ed clothing before re-use.	

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

## 9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	blue
Odour	:	none
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable

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	Flash p	point	:	Not applicable	
	Auto-ig	nition temperature	:	does not ignite	
	Decom	position temperature	:	> 130 °C	
	рН		:	4,5 - 5,5 (20 °C) Concentration: 1	00 g/l
	Solubil Wa	ity(ies) ter solubility	:	soluble	
	Partitic octano	on coefficient: n- I/water	:	Not applicable	
	Bulk de	ensity	:	1.000 - 1.200 kg	/m³
		e characteristics ticle Size Distribution	:	D50 = 3,2 mm ± Measurement te od	0,4 mm chnique: Optoelectronic measurement meth-
9.2	<b>Other ii</b> Explos	nformation ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Self-ig	nition	:	not auto-flamma	ble

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Haza	ardous reactions		ably foreseeable. release hazardous gases.	
10.4 Con	ditions to avoid			
Cond	ditions to avoid	: Hot surface(s Direct source		
10.5 Inco	mpatible materials			
Mate	erials to avoid	: Strong bases Organic mate Powdered me	erials	
10.6 Haza	ardous decomposition	products		
Haza prod	ardous decomposition ucts	: Nitrogen oxid Oxides of pho Sulphur oxide ammonia	osphorus	

## **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.

## Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg
		Method: Calculation method

## Components:

ammonium nitrate:		
Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity
Ferrous sulfate monohydrate	<b>:</b> :	
Acute oral toxicity	:	LD50: > 300 - < 2.000 mg/kg Assessment: Harmful if swallowed.
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity

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Acute	dermal toxicity		ssessment: The xicity	e substance or mixture has no acute derma	
disod	ium tetraborate pen	tahydrat	e:		
Acute	oral toxicity		ssessment: The ity	substance or mixture has no acute oral to	
Acute	inhalation toxicity		ssessment: The on toxicity	e substance or mixture has no acute inhala	
Acute	dermal toxicity		ssessment: The xicity	e substance or mixture has no acute derma	
Skin o	corrosion/irritation				
Based	d on available data, th	e classifie	cation criteria a	e not met.	
Comp	oonents:				
ammo	onium nitrate:				
Asses	sment	: N	o skin irritation		
Ferrous sulfate monohydrate:					
Asses	sment	: Irr	ritating to skin.		
disod	ium tetraborate pen	tahydrat	e:		
Asses	sment	: N	o skin irritation		
Serio	us eye damage/eye	irritation	Based on available data, the classification criteria are not met.		
				re not met.	
	d on available data, th			re not met.	
Based	d on available data, th <u>uct:</u>	e classifio		re not met.	
Based Produ Specie Metho	d on available data, th <mark>uct:</mark> es od	e classifi : Ra : O	cation criteria a abbit ECD Test Guid		
Based Produ Specie Metho Resul	d on available data, th <u>uct:</u> es od t	e classifio : Ra : O : No	cation criteria a abbit ECD Test Guid o eye irritation	eline 405	
Based Produ Specie Metho	d on available data, th <u>uct:</u> es od t	e classifio : Ra : O : No	cation criteria a abbit ECD Test Guid o eye irritation		
Based Produ Specie Metho Resul Rema	d on available data, th <u>uct:</u> es od t	e classifio : Ra : O : No	cation criteria a abbit ECD Test Guid o eye irritation	eline 405	
Based Produ Specie Metho Resul Rema	d on available data, th <mark>uct:</mark> es od t rks	e classifio : Ra : O : No	cation criteria a abbit ECD Test Guid o eye irritation	eline 405	
Based Produ Specie Metho Resul Rema	d on available data, th <u>uct:</u> es od t t rks <u>ponents:</u> pnium nitrate:	e classific : R : O : N : B	cation criteria a abbit ECD Test Guid o eye irritation	eline 405	
Based Produ Specia Metho Resul Rema <b>Comp</b> <b>ammo</b> Specia Expos	d on available data, th <u>uct:</u> es od t irks <b>conents:</b> <b>conium nitrate:</b> es sure time	e classific : R: : O : No : Ba : Ba : 24	cation criteria a abbit ECD Test Guid o eye irritation ased on data fro abbit 4 h	eline 405	
Based Produ Specie Metho Resul Rema Comp ammo Specie Expos Asses	d on available data, th <u>uct:</u> es od t urks <u>ponents:</u> ponium nitrate: es sure time ssment	e classific : R: : O : No : Ba : Ba : R: : 24 : Irr	cation criteria a abbit ECD Test Guid o eye irritation ased on data fro abbit 4 h ritating to eyes.	eline 405 om similar materials	
Based Produ Specia Metho Resul Rema <b>Comp</b> <b>ammo</b> Specia Expos	d on available data, th <u>uct:</u> es od t urks <u>ponents:</u> ponium nitrate: es sure time ssment	e classific : R: : O : No : Ba : Ba : R: : 24 : Irr	cation criteria a abbit ECD Test Guid o eye irritation ased on data fro abbit 4 h	eline 405 om similar materials	
Based Produ Specie Metho Resul Rema <b>Comp</b> <b>ammo</b> Specie Expos Asses Metho	d on available data, th <u>uct:</u> es od t urks <u>ponents:</u> ponium nitrate: es sure time ssment	e classifio : Ri : O : Ni : Ba : Ba : Ba : Ba : Ni : Ba : C	cation criteria a abbit ECD Test Guid o eye irritation ased on data fro abbit 4 h ritating to eyes.	eline 405 om similar materials	

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disod	lium tetraborate pen	tahydrate:						
Speci Resul		: Rabbit : Irritating to e	/es.					
Resp	iratory or skin sensi	tisation						
-	<b>sensitisation</b> d on available data, th	e classification criter	ia are not met.					
-	<b>Respiratory sensitisation</b> Based on available data, the classification criteria are not met.							
Com	oonents:							
ammo	onium nitrate:							
Asses	ssment	: Does not cau	ise skin sensitisation.					
Asses	ssment	: Does not cau	se respiratory sensitisation.					
	ous sulfate monohyd							
Asses	ssment	: Does not cau	se skin sensitisation.					
Asses	ssment	: Does not cau	se respiratory sensitisation.					
disod	lium tetraborate pen	tahydrate:						
Asses	ssment	: Does not cau	ise skin sensitisation.					
Asses	ssment	: Does not cau	se respiratory sensitisation.					
	<b>cell mutagenicity</b> d on available data, th	e classification criter	ia are not met.					
Com	ponents:							
	onium nitrate: toxicity in vitro	: Method: OE0 Result: nega	CD Test Guideline 471 tive					
Germ sessn	cell mutagenicity- As nent	- : Weight of evi cell mutagen	dence does not support classification as a germ					
Ferro	ous sulfate monohyd	rate:						
Germ sessn	cell mutagenicity- As nent	- : Weight of evi cell mutagen	dence does not support classification as a germ					
disod	lium tetraborate pen	tahydrate:						
Geno	toxicity in vitro		vitro tests did not show mutagenic effects ta from similar materials					



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	Germ o sessmo		:	Weight of evidend cell mutagen.	ce does not support classification as a germ
	Carcinogenicity				
	Based on available data, the clas Components:			sification criteria ar	e not met.
	ammo	nium nitrate:			
	Carcino ment	ogenicity - Assess-	:	Not classifiable as	s a human carcinogen.
	Ferrou	s sulfate monohydra	te:		
	Carcino ment	ogenicity - Assess-	:	Not classifiable as	s a human carcinogen.
	disodi	um tetraborate pental	hyd	rate:	
	Remar	ks	:		l not show any carcinogenic effects. Im similar materials
	Carcino ment	ogenicity - Assess-	:	Not classifiable as	s a human carcinogen.
	-	ductive toxicity on available data, the o	clas	sification criteria ar	e not met
		onents:			
		<b>nium nitrate:</b> ductive toxicity - As- ent	:	No toxicity to repr	oduction
				No effects on or v	ia lactation
	Ferrou	s sulfate monohydra	te:		
	Reproc sessmo	luctive toxicity - As- ent	:	No toxicity to repr	oduction
				No effects on or v	ia lactation
	disodi	um tetraborate pental	hyd	rate:	
	Effects	on fertility	:	Species: Rat Application Route	xic effects and adverse effects on the off-

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				evidence of adverse effects on sexual func- and/or on development, based on animal
Repro sessr	oductive toxicity - As- ment	:		f adverse effects on sexual function and fertil- elopment, based on animal experiments
			No effects on or v	via lactation
	<b>Γ - single exposure</b> d on available data, the	clas	sification criteria a	re not met.
Com	ponents:			
amm	onium nitrate:			
Asse	ssment	•	The substance or organ toxicant, si	mixture is not classified as specific target ngle exposure.
Ferro	ous sulfate monohydra	ate:		
Asse	ssment	:	The substance or organ toxicant, si	mixture is not classified as specific target ngle exposure.
disod	dium tetraborate penta	ahyd	rate:	
Asse	ssment	:	The substance or organ toxicant, si	mixture is not classified as specific target ngle exposure.
	<b>F - repeated exposure</b> d on available data, the		sification criteria a	re not met.
	ponents:			
amm	onium nitrate:			
Asse	ssment	:		mixture is not classified as specific target peated exposure.
Ferro	ous sulfate monohydra	ate:		
Asse	ssment	:		mixture is not classified as specific target peated exposure.
disod	dium tetraborate penta	ahyd	rate:	
	ssment	:	The substance or	mixture is not classified as specific target peated exposure.
Repe	eated dose toxicity			
Com	ponents:			
amm	onium nitrate:			

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		: Rat : > 1.500 mg/kg : Oral : 28 d		
	EL ication Route osure time	: Rat : = 256 mg/kg : Oral : 52 w : OECD Test Gu	ideline 453	
	EL ication Route osure time	: Rat : >= 185 mg/kg : inhalation (dus : 2 w : OECD Test Gu	,	

## Aspiration toxicity

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

## Components:

#### ammonium nitrate:

No aspiration toxicity classification

## Ferrous sulfate monohydrate:

No aspiration toxicity classification

## disodium tetraborate pentahydrate:

No aspiration toxicity classification

## 11.2 Information on other hazards

## Endocrine disrupting properties

## Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Components:** 

ammonium nitrate:		
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 490 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (diatoms): 1.700 mg/l Exposure time: 10 h
Toxicity to microorganisms	:	EC50 (activated sludge): 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
disodium tetraborate pental	nyd	rate:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4 mg/l
Toxicity to fish (Chronic tox- icity)	:	NOEC: 6,4 mg/l Species: Danio rerio (zebra fish)
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		
2 Parsistonce and degradabili	itv	

### 12.2 Persistence and degradability

### Components:

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

#### Components:

ammonium nitrate:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Bioad	cumulation	: Remarks: Bi	oaccumulation is unlikely.
	ion coefficient: n- ol/water	: log Pow: -3, <sup>2</sup>	I
disod	lium tetraborate pent	ahydrate:	
	ion coefficient: n- ol/water	: log Pow: -1,5	53 (22 °C)
	i <b>lity in soil</b> ata available		
12.5 Resu	Its of PBT and vPvB	assessment	
Prod	uct:		
Asse	ssment	to be either p	ce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of er.
Com	ponents:		
disod	lium tetraborate pent	ahydrate:	
Asse	ssment		not persistent, bioaccumulative, and toxic (PBT). not very persistent and very bioaccumulative
12.6 Endo	ocrine disrupting prop	perties	
Prod	uct:		
Asse	ssment	ered to have REACH Artic	ce/mixture does not contain components consid- endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher.
	<b>r adverse effects</b> ata available		
SECTION	N 13: Disposal cons	iderations	
13 1 Wast	e treatment methods		
Produ		Dispose of ir Waste codes	into surface water or sanitary sewer system. a accordance with local regulations. s should be assigned by the user based on the or which the product was used.
Conta	aminated packaging	: Empty remai	ning contents.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			niners should be taken to an approved waste han- recycling or disposal.		
SECTION	14: Transport inf	ormation			
14.1 UN n	umber or ID number				
ADN		: Not regulate	d as a dangerous good		
ADR		: Not regulate	d as a dangerous good		
RID		: Not regulate	d as a dangerous good		
IMDG		: Not regulate	d as a dangerous good		
IATA_	_P	: Not regulate	d as a dangerous good		
14.2 UN pi	roper shipping name	9			
ADN		: Not regulate	d as a dangerous good		
ADR		: Not regulate	d as a dangerous good		
RID		: Not regulate	d as a dangerous good		
IMDG		: Not regulate	d as a dangerous good		
IATA_	_P	: Not regulate	d as a dangerous good		
14.3 Trans	sport hazard class(e	s)			
ADN		: Not regulate	d as a dangerous good		
ADR		: Not regulate	d as a dangerous good		
RID		: Not regulate	d as a dangerous good		
IMDG		: Not regulate	d as a dangerous good		
IATA_	_P	: Not regulate	d as a dangerous good		
14.4 Packi	ing group				
ADN		: Not regulate	d as a dangerous good		
ADR		-	d as a dangerous good		
RID		: Not regulate	d as a dangerous good		
IMDG		: Not regulate	d as a dangerous good		
ΙΑΤΑ	(Cargo)	: Not regulate	d as a dangerous good		
	_P (Passenger)	: Not regulate	d as a dangerous good		
	onmental hazards	-	-		
14.6 Spec	ial precautions for u	-			
14.7 Marit	14.7 Maritime transport in bulk according to IMO instruments				



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MHB	latory basis C Group	: IMSBC Code : no : C		

## **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	disodium tetraborate pentahydrate
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EU) 2019/1148 on the marketing and use of sives precursors	ехр	lo-
Acquisition, introduction, possession or use of this produ general public is restricted by Regulation (EU) 2019/1148 picious transactions, and significant disappearances and should be reported to the relevant national contact point.	8. Al	l sus-
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not	applicable
Water hazard class (Germa- : WGK 1 slightly hazard ny) Classification accordin		

## 15.2 Chemical safety assessment

Not relevant

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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## **SECTION 16: Other information**

Full text of H-Statements		
H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H360FD	:	May damage fertility. May damage the unborn child.
Full text of other abbreviation	ons	
Acute Tox.	:	Acute toxicity
Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
DE DFG MAK	:	Germany. MAK BAT Annex IIa
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DE DFG MAK / MAK	:	MAK value
DE TRGS 900 / AGW	:	Time Weighted Average

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; 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



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- 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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