SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Rexolin APN

Version	Revision Date:	GR / EN	Date of last issue: 24.01.2022
3.0	28.06.2022		Date of first issue: 26.05.2015

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

1.1	Product identifier		
	Trade name	:	Rexolin APN
	UFI	:	MQ25-30VF-P009-SNUC
1.2	Relevant identified uses of th	ie s	ubstance or mixture and uses advised against
	Use of the Substance/Mixture	:	Plant nutrient
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	Nouryon Functional Chemicals B.V. Haaksbergweg 88 NL 1101 BZ Amsterdam Netherlands
	Telephone	:	+31263664433
	E-mail address of person responsible for the SDS	:	sds_chelates@nouryon.com
1.4	Emergency telephone number	ər	
	Emergency telephone number	:	24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424- 9300, CHEMTREC outside USA +1-703-527-3887, CANUTEC-CANADA:1-613-996-6666, 化学事故应急咨询电话 : 国家化学事故应急响应中心 +86 532 8388 9090<(>,<)>-: Nouryon Emergency Response Centre: +31 570 679211

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1B

H360FD: May damage fertility. May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazar	rd pictograms	:		
Signa	l word	:	Danger	
Hazar	rd statements	:	H360FD child.	May damage fertility. May damage the unborn
Preca	utionary statements	:	P202 Do not read and unde P280 Wear	special instructions before use. handle until all safety precautions have been rstood. protective gloves/ protective clothing/ eye e protection/ hearing protection.
			Response: P308 + P313 attention.	IF exposed or concerned: Get medical advice/
			Storage: P405 Store I	ocked up.
			Disposal: P501 Dispos disposal plant.	se of contents/ container to an approved waste
	dava componento v		, must ha listad	

Hazardous components which must be listed on the label:

Boric acid

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.

Dust can form an explosive mixture in air.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentratior (% w/w)
Boric acid	10043-35-3 233-139-2 005-007-00-2 01-2119486683-25	Repr. 1B; H360FD	>= 5 - < 5,5
Ethylenediaminetetraacetic acid, disodium salt	139-33-3 205-358-3 01-2119486775-20	Acute Tox. 4; H332 STOT RE 2; H373 (Respiratory Tract) Acute toxicity estimate Acute inhalation toxicity (dust/mist): 1,0001 mg/l	>= 1 - < 5
Ethylenediaminetetraacetic acid, copper disodium complex	14025-15-1 237-864-5 01-2119963944-23	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 890 mg/kg	>= 1 - < 5
Substances with a workplace expos	sure limit :		
Ethylenediaminetetraacetic acid, manganese disodium complex	15375-84-5 239-407-5 01-2119493600-40		>= 15 - < 20

Remarks : Substances with a workplace exposure limit

The following substances have multiple CAS-number

Ethylenediaminetetraacetic : 6381-92-6 acid, disodium salt

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

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			Consult a physic Show this safety	cian. I data sheet to the doctor in attendance.
If inhaled		:	Remove to fresh Keep patient wa Rinse nose and	
In	case of skin conta	act :	Take off contam	inated clothing and shoes immediately.
In case of eye contact		act :		lenses.
lf	swallowed	:		h water and drink afterwards plenty of water. hing by mouth to an unconscious person.
4.2 Mc	ost important syn	nptoms and	effects, both acu	te and delayed
S	Symptoms			and effects are as expected from the hazards tion 2. No specific product related symptoms
4.3 Inc	lication of any im	nmediate me	dical attention ar	nd special treatment needed
Τι	reatment	:	Treat symptoma	tically.
SECT	ION 5: Firefight	ing measu	res	
5.1 Ex	tinguishing medi	а		
S	uitable extinguishi	ng media :		ng measures that are appropriate to local and the surrounding environment.
5.2 Sp	ecial hazards ari	sing from th	e substance or m	nixture
	pecific hazards du efighting	ring :	courses. Risks of ignition	or off from fire fighting to enter drains or water followed by flame propagation or secondary be prevented by avoiding accumulation of brs and ledges.
	azardous combus oducts	tion :	Fire will produce products (see se Nitrogen oxides	

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5.3 Advice for firefighters Special protective equipment for firefighters		:	In the event of fire	e, wear self-contained breathing apparatus.
Further information		:	Collect contaminated fire extinguishing water separately. T must not be discharged into drains. Fire residues and contaminated fire extinguishing water m be disposed of in accordance with local regulations.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective	e equipment and emergency procedures
Personal precautions :	Use personal protective equipment. Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.
6.2 Environmental precautions	
Environmental precautions :	Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.
6.3 Methods and material for contain	nment and cleaning up
Methods for cleaning up :	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	: For personal protection see section 8.
	Avoid formation of respirable particles.
	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
	Smoking, eating and drinking should be prohibited in the
	application area.

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			regulations.	water in accordance with local and national structions before use.
	vice on protection against and explosion	:		ate exhaust ventilation at places where dust arking tools should be used.
Hygiene measures		:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.	
7.2 Con	ditions for safe storage	, inc	luding any incom	patibilities
	quirements for storage as and containers	:		rized access. Keep in a dry place. Store at e in the original container. Keep container
	ther information on rage stability	:	No decompositio	n if stored and applied as directed.
7.3 Spe	cific end use(s)			
Sp	ecific use(s)	:	Consult the techr substance/mixtur	nical guidelines for the use of this e.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethylenediaminetet raacetic acid, manganese disodium complex	15375-84-5	TWA (Inhalable fraction)	0,2 mg/m3 (Manganese)	GR OEL
		TWA (Respirable fraction)	0,05 mg/m3 (Manganese)	GR OEL

Further occupational exposure limits

Description	Value type (Form of exposure)	Control parameters	Basis
Dissolvine APN	TWA (Total dust)	5 mg/m3	GR OEL

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

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Subst	ance name	End Use	Exposure routes	Potential health effects	Value
ntaace	rlenetriaminepe etic acid, ferric um complex	Workers	Inhalation	Long-term systemic effects	22 mg/m3
		Workers	Skin contact	Long-term systemic effects	625000 mg
		Consumers	Inhalation	Long-term systemic effects	5,5 mg/m3
		Consumers	Skin contact	Long-term systemic effects	31250 mg/l
		Consumers	Ingestion	Long-term systemic effects	6,25 mg/kg
acetic	enediaminetetra acid, copper um complex	Workers	Inhalation	Long-term systemic effects	1,8 mg/m3
		Workers	Skin contact	Long-term systemic effects	3750 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0,45 mg/m
		Consumers	Skin contact	Long-term systemic effects	1875 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,375 mg/k bw/day
	enediaminetetra acid, disodium	Workers	Inhalation	Long-term local effects	1,5 mg/m3
		Workers	Inhalation	Acute local effects	3 mg/m3
acetic	anese disodium	Workers	Skin contact	Long-term systemic effects	25000 mg/l
		Workers	Inhalation	Long-term systemic effects	12 mg/m3
		Workers	Inhalation	Acute local effects	69 mg/m3
		Consumers	Inhalation	Long-term systemic effects	3 mg/m3
		Consumers	Ingestion	Long-term systemic effects	2,5 mg/kg
		Consumers	Skin contact	Long-term systemic effects	12500 mg/ł
acetic	nediaminetetra acid, zinc um complex	Workers	Inhalation	Long-term systemic effects	30 mg/m3
		Workers	Skin contact	Long-term systemic effects	62500 mg/l
		Consumers	Ingestion	Long-term systemic effects	6,25 mg/kg

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ersion .0	Revision Date: 28.06.2022	GR / EN		of last issue: 24.01.202 of first issue: 26.05.201	—
		Consumers	Inhalation	Long-term systemic effects	7,5 mg/m3
		Consumers	Skin contact	Long-term systemic effects	31250 mg/kg
Sodiu	ım sulfate	Workers	Inhalation	Long-term systemic effects	20 mg/m3
		Workers	Inhalation	Long-term local effects	20 mg/m3
		Consumers	Inhalation	Long-term systemic effects	12 mg/m3
		Consumers	Inhalation	Long-term local effects	12 mg/m3
Predi	icted No Effect Co	oncentration (PN	IEC) according t	o Regulation (EC) No.	1907/2006:
Subst	tance name	Envi	ronmental Compa	rtment	Value

Substance name	Environmental Compartment	Value
Diethylenetriaminepentaacetic acid, ferric disodium complex	Fresh water	6,2 mg/l
	Marine water	0,62 mg/l
	Intermittent water	3,1 mg/l
	Sewage treatment plant	50 mg/l
	Soil	1,23 mg/kg dry weight
Ethylenediaminetetraacetic acid, copper disodium complex	Fresh water	2,95 mg/l
	Marine water	0,3 mg/l
	Sewage treatment plant	65,4 mg/l
	Soil	0,21 mg/kg dry weight
Ethylenediaminetetraacetic acid, disodium salt	Fresh water	2,5 mg/l
	Marine water	0,25 mg/l
	Intermittent water	1,4 mg/l
	Soil	0,84 mg/kg dry weight
	Sewage treatment plant	50 mg/l
Ethylenediaminetetraacetic acid, manganese disodium complex	Fresh water	4,88 mg/l
	Intermittent water	6,49 mg/l
	Marine water	0,49 mg/l
	Sewage treatment plant	64 mg/l
Ethylenediaminetetraacetic acid, zinc disodium complex	Fresh water	2,97 mg/l
· · · · ·	Marine water	0,3 mg/l
	Intermittent water	1,1 mg/l
	Sewage treatment plant	66 mg/l
	Soil	0,21 mg/kg dry weight
Sodium sulfate	Fresh water	11,09 mg/l

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		Marine w	ater	1,109 mg/l
		Intermitte	nt water	17,66 mg/l
		Sewage treatment plant		800 mg/l
		Fresh wa	ter sediment	40,2 mg/kg
		Marine sediment		4,02 mg/kg
		Soil		1,54 mg/kg

8.2 Exposure controls

Engineering measures

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment							
Eye protection	:	Tightly fitting safety goggles					
Skin and body protection	:	Protective suit					
Respiratory protection	:	Half mask with a particle filter P2 (EN 143)					

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	granular
Colour	:	yellow, brown
Odour	:	odourless
Odour Threshold	:	Not applicable
Melting point	:	Decomposes before melting.
Boiling point/boiling range	:	Not applicable
Flammability	:	Not classified as a flammability hazard
		May form combustible dust concentrations in air during processing, handling or other means.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	>= 40 g/m3
Flash point	:	Not applicable

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A	uto-igr	ition temperature	:	320 °C Method: Auto-igr 50281-2-1	ition of a 5mm dust layer according to EN
D	ecomp	oosition temperature	:	No data available	9
р	Н		:	5 - 7 Concentration: 1	%
V	iscosit Visco	y osity, dynamic	:	Not applicable	
	Visco	osity, kinematic	:	Not applicable	
S	olubilit Wate	y(ies) er solubility	:	> 100 g/l	
	Solul	bility in other solvents	:	No data available	9
	artition ctanol/	coefficient: n- water	:	log Pow: < 0	
V	'apour	pressure	:	Not applicable	
R	Relative	density	:	No data available	9
В	Bulk der	nsity	:	550 - 750 kg/m3	
R	Relative	vapour density	:	Not applicable	
9.2 Ot	ther in	formation			
E	xplosiv	ves	:	Not explosive	
С	Dxidizin	g properties	:	Not classified as	oxidising.
F	lamma	bility (liquids)	:	Not applicable	
S	Self-igni	tion	:	No data available	9
E	vapora	ition rate	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

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	10.2 Chemical stability								
Stal	ble under recommended	storag	e conditions.						
10.3 Pos	sibility of hazardous re	eaction	ns						
Haz	ardous reactions	:	Dust may form e	xplosive mixture in air.					
10.4 Coi	nditions to avoid								
Cor	ditions to avoid	:	None known.						
10.5 Inc	ompatible materials								
Mat	erials to avoid	:	None known.						
10.6 Haz	ardous decomposition	produ	ucts						
No	decomposition if stored a	nd app	plied as directed.						
Haz	ardous decomposition	:	Carbon oxides						
proc	ducts		nitrogen oxides (NOx)					
The	rmal decomposition	:	No data available	8					
		-		-					

SECTION 11: Toxicological information

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

Information on likely routes of : Ingestion exposure

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

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Com	oonents:		
Boric	acid:		
Acute	oral toxicity		t): 2.660 mg/kg Information taken from reference works and the
Acute	e dermal toxicity	Assessme toxicity	obit): > 2.000 mg/kg ent: The substance or mixture has no acute dermal Information taken from reference works and the
Ethyl	enediaminetetraacet	ic acid, disodiur	n salt:
Acute	oral toxicity	: LD50 (Rat	t): > 2.000 mg/kg
Acute	inhalation toxicity	Exposure Test atmo Method: C Acute toxi	t): > 1 - 5 mg/l time: 4 h sphere: dust/mist DECD Test Guideline 412 city estimate: 1,0001 mg/l sphere: dust/mist
	enediaminetetraacet oral toxicity	ic acid, copper c	calculation method disodium complex: i): 890 mg/kg
			city estimate: 890 mg/kg Calculation method
Acute	inhalation toxicity	Exposure Test atmo	i): 5,30 mg/l time: 4 h sphere: dust/mist DECD Test Guideline 436
Ethyl	enediaminetetraacet	ic acid, mangan	ese disodium complex:
Acute	oral toxicity		i): > 5.000 mg/kg DECD Test Guideline 423
-	corrosion/irritation lassified based on ava	ilable information	L

Components:

Ethylenediaminetetraacetic acid, disodium salt:

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Speci Metho Resul	bd	: Rabbit : OECD T : No skin i	est Guideline 404 rritation
Ethyl	enediaminetetraace	tic acid, copper	disodium complex:
Speci Metho Resul Rema	od It	: slight irri	est Guideline 404 ation n available data, the classification criteria are not met.
Ethyl	enediaminetetraace	tic acid, manga	nese disodium complex:
Resu	lt	: No skin i	rritation
	ous eye damage/eye lassified based on ava		n.
<u>Com</u>	ponents:		
Ethyl	enediaminetetraace	tic acid, disodiu	ım salt:
Speci Metho Resul	od	: Rabbit : OECD T : No eye ii	est Guideline 405 ritation
Ethyl	enediaminetetraace	tic acid, copper	disodium complex:
Speci	ies ssment od	: Rabbit : Irritating	to eyes. est Guideline 405
Ethyl	enediaminetetraace	tic acid, manga	nese disodium complex:
Metho Resul		: OECD T : No eye in	est Guideline 437 ritation
Resp	iratory or skin sensi	tisation	
-	sensitisation lassified based on ava	ailable informatic	n.
	iratory sensitisation lassified based on ava		n.
Com	ponents:		
Boric Resul Rema			cause skin sensitisation. on taken from reference works and the literature.

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Ethylenediaminetetraacetic acid, disodium salt:					
Test Type	:	Maximisation Test			
Species	:	Guinea pig			
Method	:	OECD Test Guideline 406			
Result	:	Does not cause skin sensitisation.			
GLP	:	yes			

Ethylenediaminetetraacetic acid, copper disodium complex:

 -	Mouse OECD Test Guideline 429
	Does not cause skin sensitisation.

Ethylenediaminetetraacetic acid, manganese disodium complex:

Assessment	:	Does not cause skin sensitisation.
Remarks	:	Read-across (Analogy)

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid, disodium salt:

Emylenearannietetraaoetto	
Genotoxicity in vitro	: Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Genotoxicity in vivo	: Test Type: Chromosome aberration test in vivo Species: Mouse Method: OECD Test Guideline 474 Result: negative
Ethylenediaminetetraacetic	acid, copper disodium complex:
Genotoxicity in vitro	: Test Type: Ames test Method: OECD Test Guideline 471 Result: negative
	Test Type: Micronucleus test Method: OECD Test Guideline 487 Result: Does not induce structural chromosome aberrations.
	Test Type: In vitro gene mutation study in mammalian cells Method: OECD Test Guideline 476 Result: Ambiguous results

Remarks: Read-across from supporting substance (structural

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			analogue or sur	rogate).
Geno	toxicity in vivo	:		lassified due to data which are conclusive cient for classification.
Ethyl	enediaminetetraacet	tic acio	l, manganese d	isodium complex:
Geno	toxicity in vitro	:	Test Type: Ame Method: OECD Result: negative	Test Guideline 471
Geno	toxicity in vivo	:	Result: Not mut	agenic.
	i nogenicity lassified based on ava	ailable i	nformation.	
<u>Com</u>	ponents:			
Ethyl	enediaminetetraacet	tic acio	I, disodium salt	:
Speci Applio Resu	cation Route	:		ue to data which are conclusive although
Rema	arks	:	insufficient for c Read-across (A	
Fthyl	enediaminetetraace	tic acio	l conner disod	ium complex:
Speci		:	Rat	
	cation Route	:	Oral	
Resu Rema		:		c on laboratory animals. om supporting substance (structural analogue
Ethyl	enediaminetetraacet	tic acio	l, manganese d	isodium complex:
Rema	arks	:	Not classified de insufficient for c	ue to data which are conclusive although lassification.
-	oductive toxicity			
Not c	lassified based on ava	ailable i	nformation.	
<u>Com</u>	ponents:			
Boric	acid:			
•	oductive toxicity - ssment	:	fertility, based o	of adverse effects on sexual function and n animal experiments., Clear evidence of on development, based on animal

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Ethyle	enediaminetetraace	tic acid, copper dis	odium complex:
	s on fertility	: Species: Ra	t
			AEL: 500 mg/kg bw/day CD Test Guideline 422
	s on foetal opment		t ity: NOAEL: 500 mg/kg bw/day CD Test Guideline 422
STOT	- single exposure		
Not cla	assified based on av	ailable information.	
<u>Comp</u>	onents:		
Ethyle	enediaminetetraace	tic acid, disodium	salt:
Asses	sment	: Based on av	vailable data, the classification criteria are not mo
Ethyle	enediaminetetraace	tic acid, copper dis	odium complex:
Asses	sment		d due to data which are conclusive although or classification.
Ethyle	enediaminetetraace	tic acid, manganes	e disodium complex:
	ure routes	: Inhalation	
	t Organs sment		system ice or mixture is not classified as specific target nt, single exposure.
STOT	- repeated exposu	e	
Not cla	assified based on av	ailable information.	
<u>Comp</u>	onents:		
Ethyle	enediaminetetraace	tic acid, disodium	salt:
	ure routes t Organs	: Inhalation	Tract
•	sment		ce or mixture is classified as specific target orga eated exposure, category 2.
Ethyle	enediaminetetraace	tic acid, copper dis	odium complex:
Asses	sment		d due to data which are conclusive although or classification.
Ethyle	enediaminetetraace	tic acid, manganes	e disodium complex:
	ure routes	: Ingestion	
Asses	sment	: The substan	ce or mixture is not classified as specific target

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organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Ethylenediaminetetraacetic acid, manganese disodium complex:

NOAEL	:	500 mg/kg
Application Route	:	Oral
Exposure time	:	728 d
Method	:	OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid, disodium salt:

Not classified due to data which are conclusive although insufficient for classification.

Ethylenediaminetetraacetic acid, copper disodium complex:

Not classified due to data which are conclusive although insufficient for classification.

Ethylenediaminetetraacetic acid, manganese disodium complex:

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.

Further information

Product:

Remarks :	No further data available.
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SECTION 12: Ecological information

12.1 Toxicity

Components:		
Boric acid:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 50 - 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 133 mg/l Exposure time: 48 h Remarks: Information taken from reference works and the literature.
Toxicity to algae/aquatic plants	:	IC50 (Scenedesmus subspicatus (algae)): 192 mg/l Exposure time: 72 h Remarks: Information taken from reference works and the literature.
Ecotoxicology Assessment		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Ethylenediaminetetraacetic	aci	d, disodium salt:
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h Remarks: Read-across (Analogy)
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (calculated) (Daphnia magna (Water flea)): 140 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to microorganisms	:	EC50 (activated sludge): > 500 mg/l Exposure time: 30 min Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	:	NOEC: > 25,7 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 210 Remarks: Read-across (Analogy)
Toxicity to daphnia and other	:	NOEC: > 25 mg/l

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	ic invertebrates nic toxicity)		Exposure time: 21 d Species: Daphnia magna (Water flea)				
Ethyle	enediaminetetraacetic	acid, copp	er disodium complex:				
Toxici	ity to fish	Exposi	Lepomis macrochirus (Bluegill sunfish)): 555 mg/l ure time: 96 h ype: Fresh water				
	ity to daphnia and other ic invertebrates	Exposi Test Ty Methor	Daphnia magna (Water flea)): 109,2mg/l ure time: 48 h ype: Fresh water d: OECD Test Guideline 202 ks: Read-across (Analogy)				
Toxici plants	ity to algae/aquatic	mg/l Exposi Test Ty Method	Pseudokirchneriella subcapitata (green algae)): 662,6 ure time: 72 h ype: Fresh water d: OECD Test Guideline 201 ks: Read-across (Analogy)				
Toxici	ity to microorganisms	Exposi Test Ty Method	(activated sludge): > 654 mg/l ure time: 3 h ype: static test d: OECD Test Guideline 209 ks: Read-across (Analogy)				
Toxici toxicit	ity to fish (Chronic y)	Exposi Specie Test Ty Method	: 37,2 mg/l ure time: 35 d s: Danio rerio (zebra fish) ype: flow-through test d: OECD Test Guideline 210 ks: Read-across (Analogy)				
aquat	ity to daphnia and other ic invertebrates nic toxicity)	End po Exposi Specie Test Ty Method	: 29,5 mg/l int: reproduction rate ure time: 21 d s: Daphnia magna (Water flea) ype: semi-static test d: OECD Test Guideline 211 ks: Read-across (Analogy)				
Ethyle	enediaminetetraacetic	acid, mang	anese disodium complex:				
Toxici	ity to fish	Exposi Test T Remar	Danio rerio (zebra fish)): > 1.000 mg/l ure time: 96 h ype: static test ks: Read-across from supporting substance (structura ue or surrogate).				

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	Foxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Test Type: Growt Method: OECD T	h inhibition est Guideline 201 cross from supporting substance (structural
				mg/l Exposure time: 72 Test Type: Growt Method: OECD T	h inhibition est Guideline 201 cross from supporting substance (structural
Т	Foxicity	to microorganisms	:	NOEC (activated Exposure time: 3 Test Type: Respir Method: Domestic	h
	Foxicity oxicity)	r to fish (Chronic	:	NOEC: 28,9 mg/l Exposure time: 35 Species: Danio re Test Type: flow-th Method: OECD To GLP: yes Remarks: Read-a analogue or surro	rio (zebra fish) irough test est Guideline 210 cross from supporting substance (structural
а	aquatic	to daphnia and other invertebrates c toxicity)	:	NOEC: 156 mg/l End point: reprodu Exposure time: 2 ⁻⁷ Species: Daphnia Method: OECD To GLP: yes	l d magna (Water flea)
12.2 Persistence and degradability					
	Produc Biodegi	radability	:	Remarks: The pro substances.	oduct contains not readily biodegradable
		nical Oxygen d (BOD)	:	Remarks: No data	a available

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Compo	onents:			
Boric a	cid:			
Biodeg	radability	:	Result: Not applic	able
	nical Oxygen d (BOD)	:	Remarks: No dat	a available
Ethyler	nediaminetetraacetic	c aci	d, disodium salt:	
Biodegi	radability	:	Remarks: Not rea longer period.	dily biodegradable, but will degrade after a
	mical Oxygen d (BOD)	:	Remarks: No dat	a available
Chemic (COD)	al Oxygen Demand	:	630 mg/g	
Ethyler	nediaminetetraacetic	c aci	d, copper disodiu	m complex:
Biodegi	radability	:	Remarks: Not rea longer period.	dily biodegradable, but will degrade after a
	mical Oxygen d (BOD)	:	Remarks: No dat	a available
Ethyler	nediaminetetraacetic	c aci	d, manganese dis	odium complex:
Biodeg	radability	:	Result: Not readil	y biodegradable.
	nical Oxygen d (BOD)	:	Remarks: No dat	a available
2.3 Bioaco	umulative potential			
Produc	: <u>t:</u>			
Bioaccu	umulation	:	Remarks: Bioacc	umulation is unlikely.
Compo	onents:			
Boric a	cid:			
Bioaccu	umulation	:	Remarks: No dat	a available
Ethyler	nediaminetetraacetic	c aci	d, disodium salt:	
Bioaccu	umulation	:	Remarks: Not exp	pected considering the low log Pow value.
Partitio	n coefficient: n-	:	log Pow: < 0	
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octan	ol/water		
Ethyl	enediaminetetraace	tic acid, copper o	disodium complex:
Bioac	cumulation	: Remarks:	Not expected considering the low log Pow value.
	ion coefficient: n- ol/water	: log Pow: -	10,416
Ethyl	enediaminetetraace	tic acid, mangan	ese disodium complex:
Bioac	cumulation	: Remarks:	Not expected considering the low log Pow value.
	ion coefficient: n- ol/water	: log Pow: - Method: C GLP: no	8,12 Calculation method
12.4 Mobi	ility in soil		
Prod	uct:		
Mobil	ity	: Remarks:	Adsorption to the solid soil particles is not expected.
Com	ponents:		
Boric	acid:		
Mobil	ity	: Remarks:	No data available
Ethyl	enediaminetetraace	tic acid, disodiuı	n salt:
Mobil	ity	: Remarks:	Adsorption to the solid soil particles is not expected.
Ethyl	enediaminetetraace	tic acid, copper o	disodium complex:
Mobil			Adsorption to the solid soil particles is not expected.
Ethyl	enediaminetetraace	tic acid, mangan	ese disodium complex:
Mobil	ity	: Remarks:	No data available
12.5 Resu	Ilts of PBT and vPvB	assessment	
Prod	uct:		
	ssment	to be eithe	tance/mixture contains no components considered er persistent, bioaccumulative and toxic (PBT), or stent and very bioaccumulative (vPvB) at levels of igher.

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Com	ponents:							
	ssment	: No data avai	lable					
Ethyl	Ethylenediaminetetraacetic acid, disodium salt:							
Asse	ssment	Bioaccumula	ce is not considered to be a PBT (Persistent, tion, Toxic). This substance is not considered to y Persistent nor very Bioaccumulating)					
Ethyl	lenediaminetetraacet	ic acid, copper dis	odium complex:					
Asse	ssment	Bioaccumula	ce is not considered to be a PBT (Persistent, tion, Toxic). This substance is not considered to y Persistent nor very Bioaccumulating)					
Ethylenediaminetetraacetic acid, manganese disodium complex:								
-	ssment	: This substan Bioaccumula	ce is not considered to be a PBT (Persistent, tion, Toxic). This substance is not considered to y Persistent nor very Bioaccumulating)					
12.6 Endo	ocrine disrupting pro	perties						
Prod	uct:							
Asse	ssment	considered to to REACH A	ce/mixture does not contain components b have endocrine disrupting properties according rticle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher.					
12.7 Othe	r adverse effects							
	uct: ional ecological nation	: None known						
	N 13: Disposal cons							
13.1 Wast	te treatment methods	5						

Product

 Do not dispose of waste into sewer.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Dispose of contents/container in accordance with local regulation.

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Conta	minated packaging	: Empty remain Dispose of as	ing contents. unused product.

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

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 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

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).	:	Boric acid
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable

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	ACH - List of substances nex XIV)	subj	ect to authorisation	n : Not applicable		
Eur con	eso III: Directive 2012/18 opean Parliament and of trol of major-accident haz gerous substances.	the (Council on the	Not applicable		
The	components of this pr	oduo	ct are reported in	the following inventories:		
TCS	SI	:	On the inventory,	or in compliance with the inventory		
TSC	CA	:	All substances lis	ted as active on the TSCA inventory		
Allo)	:	On the inventory,	or in compliance with the inventory		
DSI	-	:		tains the following components listed on the All other components are on the Canadian		
			Diethylenetriamir	nepentaacetic acid, ferric disodium complex		
EN	CS	:	On the inventory,	or in compliance with the inventory		
ISH	L	:	On the inventory, or in compliance with the inventory			
KE		:	Not in compliance with the inventory			
PIC	cs	:	Not in compliance	e with the inventory		
IEC	SC	:	On the inventory,	or in compliance with the inventory		
NZI	oC	:	On the inventory,	or in compliance with the inventory		
TEC		:	Not in compliance	e with the inventory		
15.2 Ch	15.2 Chemical safety assessment					
	ic acid	:	A Chemical Safet substance.	ty Assessment has been carried out for this		
	ylenediaminetetraacetic I, disodium salt	:	A Chemical Safet substance.	ty Assessment has been carried out for this		
acio	ylenediaminetetraacetic I, copper disodium Iplex	:	A Chemical Safet substance.	ty Assessment has been carried out for this		
	ylenediaminetetraacetic	:	A Chemical Safet	ty Assessment has been carried out for this		

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	acid, man complex	ganese disodium		substance.	
SEC	CTION 16	: Other information	on		
	Full text of	of H-Statements			
H302 H319 H332 H360FD H373		 Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure if inhaled. 			
	Full text of	of other abbreviatio	ns		
	Acute Tox Eye Irrit. Repr. STOT RE GR OEL	-	:	Greece. Hellenic I List of Limit Value	an toxicity - repeated exposure nstitute for Occupational Health and Safety - s
	GR OEL / GR OEL / GR OEL /		:	Greece. Exposure Time weighted av Long term exposu	erage

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

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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

Classification of the mixture	Classification procedure:	
Repr. 1B	H360FD	Calculation method

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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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