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

1.1 Product identifier	
- ,	

Trade name

: Nutriforest® 9-23-14

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

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.

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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 fertili	ser
Chernical Hataro	. morgamo roran	001

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
copper sulphate pentahydrate	7758-99-8	Acute Tox. 4; H302	>= 0,1 - < 0,25
	231-847-6	Eye Dam. 1; H318	
	029-023-00-4	Aquatic Acute 1;	
	01-2119520566-40-	H400	
	XXXX	Aquatic Chronic 1;	
		H410	
			-
		M-Factor (Acute	
		aquatic toxicity): 10	
		M-Factor (Chronic	
		aquatic toxicity): 1	
		Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
For exploration of obbroviations		482 mg/kg	

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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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

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If inhaled		:	If breathed in, move person into fresh air. If symptoms persist, call a physician.		
In case of skin contact		:	Wash off with soap and water.		
In cas	se of eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists, consult a specialist.		
lf swa	allowed	:	Clean mouth with water and drink afterwards plenty of wate Obtain medical attention.		
4.2 Most i	mportant symptoms a	nd e	effects, both acut	e and delayed	
Symp	otoms	:	Ingestion may provoke the following symptoms: Methaemoglobinemia		
4.3 Indica	tion of any immediate	meo	dical attention an	d special treatment needed	
Treat	ment	:	Treat symptomat	ically.	
5.1 Extinc	juishing media				
-	ble extinguishing media	:		g measures that are appropriate to local cir- the surrounding environment.	
Suita	ble extinguishing media	:	Dry chemical Water mist Use extinguishin	the surrounding environment. er jet	
Suital Unsu media	ble extinguishing media	: :	Dry chemical Water mist Use extinguishing cumstances and High volume wat Carbon dioxide (Foam Sand	the surrounding environment. er jet CO2)	
Suital Unsu media	ble extinguishing media itable extinguishing a al hazards arising from ific hazards during fire-	: : : :	Dry chemical Water mist Use extinguishing cumstances and High volume wat Carbon dioxide (Foam Sand substance or m Thermal decomp and vapours.	the surrounding environment. er jet CO2)	

Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-

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

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for fire	fighters	essary.	
Furthe	er information	must not be disc Fire residues and	ated fire extinguishing water separately. This harged into drains. d contaminated fire extinguishing water must accordance with local regulations. f does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

stem. s inform

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 ap- plication area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against : fire and explosion	Provide appropriate exhaust ventilation at places where dust is formed. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

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

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Hygiene measures		h	Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.		
Dust explosion class		: N	No data available		
7.2 Cor	ditions for safe storage,	includ	ding any incom	patibilities	
Further information on stor- age conditions		f	Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture. Protect from con- tamination.		
Advice on common storage		۲ ۲	 Keep away from combustible materials. Keep away from strong acids. Keep away from strong bases. Keep away from food, drink and animal feedingstuffs. 		
	rther information on stor- e stability	: F	Protect from frost	, heat and sunlight.	

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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

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

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l

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

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			Intermittent use	/release	0,53 mg/l 62,6 mg/kg 16,12 mg/l
8.2 Exp	oosure controls		Fresh water		0,063 mg/kg
Ре	ersonal protective equipn	nent			
	ve/face protection	:	Safety glasses w	ith side-shields conforming to	EN166
Ha	and protection Material Directive	:	Gloves Equipment shoul	d conform to EN 374	
	Remarks	:		a mixture of several substanc materials cannot be calculate sted before use.	
Sk	in and body protection	:	Long sleeved clo	thing	
Re	espiratory protection	:	approved filter.	st or aerosol formation use res d conform to EN 14387	spirator with an
	Filter type	:	Filter type P		
Pr	otective measures	:	practice.	ance with good industrial hygi ted clothing before re-use.	ene and safety

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	beige, grey
Odour	:	very faint
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn

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



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	Upper e flamma	explosion limit / Upper bility limit	:	Not applicable	
		explosion limit / Lower bility limit	:	Not applicable	
	Flash p	oint	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	> 130 °C	
	рН		:	4,5 - 5,5 (20 °C) Concentration: 10	00 g/l
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Bulk de	nsity	:	ca. 1.200 kg/m³	
		characteristics icle Size Distribution	:	D50 = 3,2 mm ± 0 Measurement teo od	0,4 mm chnique: Optoelectronic measurement meth-
9.2	Other in	formation			
-	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Self-igr	ition	:	not auto-flammat	ble
	Minimu centrati	m explosible dust con- on	:	No data available	
	Dust ex	plosion class	:	No data available	

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

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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

Hazardous reactions		None reasonably foreseeable. Heating can release hazardous gases.
---------------------	--	--

10.4 Conditions to avoid

Conditions to avoid

: Hot surface(s) Direct sources of heat.

10.5 Incompatible materials

Materials to avoid

: Strong bases Organic materials Powdered metals

10.6 Hazardous decomposition products

Hazardous decomposition	:	Nitrogen oxides (NOx)
products		Oxides of phosphorus
		Sulphur oxides
		ammonia

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.

Components:

copper sulphate pentahydrate:

Acute oral toxicity	:	LD50 (Rat): 482 mg/kg Assessment: Harmful if swallowed.
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

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

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Skin corrosion/irritation

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

Components:

copper sulphate pentahydrate:

Assessment : No skin irritation

Serious eye damage/eye irritation

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

Product:

ep conce	Rabbit OECD Test Guideline 405
	No eye irritation Based on data from similar materials

Components:

copper sulphate pentahydrate:

Assessment :	Risk of serious damage to eyes.
--------------	---------------------------------

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Components:

copper sulphate pentahydrate:

Assessment	:	Does not cause skin sensitisation.

Assessment :		Does not cause respiratory sensitisation.
--------------	--	---

Germ cell mutagenicity

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

Components:

copper sulphate pentahydrate:

Germ cell mutagenicity- As-	:	Weight of evidence does not support classification as a germ
sessment		cell mutagen.

Carcinogenicity

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

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



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	Comp	onents:		
	coppe	r sulphate pentahydr ogenicity - Assess-		ole as a human carcinogen.
	Based	ductive toxicity on available data, the onents:	classification criter	ia are not met.
		r sulphate pentahydr ductive toxicity - As- ent		reproduction
			No effects or	or via lactation
		- single exposure on available data, the	classification criter	ia are not met.
	<u>Comp</u>	onents:		
	coppe Asses	r sulphate pentahydr sment	: The substand	ce or mixture is not classified as specific target nt, single exposure.
		- repeated exposure on available data, the	classification criter	ia are not met.
		onents:		
	coppe Assess	r sulphate pentahydr sment	: The substand	ce or mixture is not classified as specific target nt, repeated exposure.
	Based	ition toxicity on available data, the onents:	classification criter	ia are not met.
		r sulphate pentahydr piration toxicity classific		
11.2	2 Inform	nation on other hazar	ds	
	Endoc	rine disrupting prope	erties	
	<u>Produ</u> Assess			ce/mixture does not contain components consid- endocrine disrupting properties according to

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



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				7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
SECTIO	ON 12: Ecological infor	rma	ition	
12.1 To	xicity			
Co	mponents:			
cop	oper sulphate pentahydra	ate:		
To>	cicity to fish	:	LC50 (Pimephale g/l Exposure time: 9	es promelas (fathead minnow)): 38,4 - 256,2 6 h
	cicity to daphnia and other natic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 33,8 - 792 g/l 8 h
M-F icity	Factor (Acute aquatic tox- /)	:	10	
To» icity	<pre>kicity to fish (Chronic tox- /)</pre>	:	NOEC: 66 g/l Exposure time: 1	4 d
aqu	cicity to daphnia and other natic invertebrates (Chron- oxicity)		Exposure time: 2	1 d a magna (Water flea)
	Factor (Chronic aquatic city)	:	1	
	rsistence and degradabil data available	ity		
12.3 Bio	accumulative potential			
Co	mponents:			
Par	oper sulphate pentahydra tition coefficient: n- anol/water	ate:	Remarks: Not ap	plicable
	bility in soil data available			
12.5 Re	sults of PBT and vPvB as	sse	ssment	
	oduct: sessment	:		nixture contains no components considered stent, bioaccumulative and toxic (PBT), or

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



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		very persistent 0.1% or higher	and very bioaccumulative (vPvB) at levels of
12.6 Endo	crine disrupting prop	perties	
Produ	uct:		
Asses	ssment	ered to have e REACH Article	Mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
	r adverse effects ata available		
SECTION	13: Disposal cons	iderations	
13 1 Wast	e treatment methods		
Produ		: Do not flush in Dispose of in a Waste codes s	to surface water or sanitary sewer system. accordance with local regulations. should be assigned by the user based on the which the product was used.
Conta	aminated packaging		ng contents. ers should be taken to an approved waste han- cycling or disposal.
SECTION	14: Transport info	rmation	
14.1 UN n	umber or ID number		
ADR		: Not regulated	as a dangerous good

ADR	•	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good

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

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	RID		:	Not regulated as	a dangerous good
	IMDG		:	Not regulated as	a dangerous good
	IATA_	Р	:	Not regulated as	a dangerous good
14.4	Packir	ng group			
	ADR		:	Not regulated as	a dangerous good
	RID		:	Not regulated as	a dangerous good
	IMDG		:	Not regulated as	a dangerous good
	IATA (Cargo)	:	Not regulated as	a dangerous good
	IATA_	P (Passenger)	:	Not regulated as	a dangerous good
14.5		onmental hazards gulated as a dangerou	is go	od	
14.6	•	al precautions for us plicable	er		
14.7	' Maritii	me transport in bulk	acc	ording to IMO inst	ruments
	Regula Remar	atory basis ks	:	IMSBC Code Product is not all	owed to be transported in bulk.

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).	: Not applicable
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
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

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15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of H-Statements

H302 :	Harmful if swallowed.
H318 :	Causes serious eye damage.
H400 :	Very toxic to aquatic life.
H410 :	Very 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. :	Serious eye damage

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 - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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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