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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

: Hakaphos® Verde 15-10-15

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 fertiliser
Components Remarks	: No hazardous ingredients

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.
If inhaled	:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with plenty of water. Take off all contaminated clothing immediately. If symptoms persist, call a physician.
In case 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.
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Ingestion may provoke the following symptoms:
		Methaemoglobinemia

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

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.3

Suitable extinguishing media	: Water Dry chemical Water mist Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet Carbon dioxide (CO2) Foam Sand
.2 Special hazards arising from t	the substance or mixture

5.2 Sp

Specific hazards during fire- fighting	:	Thermal decomposition can lead to release of irritating gases and vapours. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Carbon oxides
Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

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		mental precautions mental precautions	:	Prevent further le	surface water or sanitary sewer system. eakage or spillage if safe to do so. ntaminates rivers and lakes or drains inform rities.	
	6.3 Methods and material for containment and cleaning up Methods for cleaning up : Pick up and transfer to properly labelled containers.					
For p	personal	ce to other sections I protection see section 7: Handling and sto			siderations see section 13.	
		-				
		ions for safe handlin on safe handling	g :	Keep away from Keep away from Smoking, eating plication area.	h skin and eyes. rotective equipment. combustible material. heat and sources of ignition. and drinking should be prohibited in the ap- water in accordance with local and national	
		on protection against explosion	:	The product is no	ot flammable.	
	Hygiene	e measures	:		food, drink and animal feedingstuffs. Wash ing, drinking, or smoking. Wash hands before e end of workday.	
7.2 0	Conditio	ons for safe storage,	inc	luding any incom	patibilities	
	Further age cor	information on stor- nditions	:		sources of ignition - No smoking. Keep away ht. Protect from moisture.	
	Advice	on common storage	:	Keep away from Keep away from		
	Storage	e class (TRGS 510)	:	5.1C,Ammonium preparations	nitrate and ammonium nitrate containing	
	Further age sta	information on stor- bility	:	Protect from fros	t, heat and sunlight.	

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

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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
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg

8.2 Exposure controls

Personal protective equipment 0-4-4-4

Eye/face protection	:	Safety glasses with side-shields
Hand protection Material Directive	:	Gloves Equipment should 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 and body protection	:	Long sleeved clothing
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.

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

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			Equipment should	conform to EN 14387
Filter type		:	Filter type P	
Protective measures		:	 Handle in accordance with good industrial hygiene and practice. Wash contaminated clothing before re-use. 	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

••••	Physical state		solid
	Colour	:	green
	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
	Flash point	:	Not applicable
	Auto-ignition temperature	:	does not ignite
	Decomposition temperature	:	> 130 °C To avoid thermal decomposition, do not overheat.
	рН	:	ca. 4,5 (20 °C) Concentration: 100 g/l
	Solubility(ies)		

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

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	Wat	ter solubility	:	soluble	
-		n coefficient: n- I/water	:	Not applicable	
D	Density	/	:	not determined	
В	Bulk de	ensity	:	ca. 1.100 kg/m³	
Ρ		e characteristics ticle Size Distribution	:	D50 = 450 µm ± Measurement te	90 µm chnique: Sieve analysis
	ther ir Explos	nformation ives	:	Not explosive	
С	Dxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
S	Self-igr	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 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

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

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Powdered metals

10.6 Hazardous decomposition products

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

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.

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

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.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration toxicity

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components consid-

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

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			REACH Article 5	ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
SECTIO	N 12: Ecological info	orma	tion	
12.1 Toxicity No data available				
12.2 Persistence and degradability No data available				
12.3 Bioaccumulative potential No data available		I		
	i lity in soil ata available			
12.5 Results of PBT and vPvB asses			ssment	
<u>Prod</u>	uct:			
Asse	ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of

12.6 Endocrine disrupting properties

Product:	
Assessment	: The substance/mixture does not contain components consid- ered 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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging	:	Empty remaining contents. Empty containers should be taken to an approved waste han-

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

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		dling site for recycling or disposal.			
SECTION	N 14: Transport inf	ormation			
14.1 UN n	umber or ID number				
ADR		: Not	regulated as	a dangerous good	
RID		: Not	regulated as	a dangerous good	
IMDG	6	: Not	regulated as	a dangerous good	
IATA	_P	: Not	regulated as	a dangerous good	
14.2 UN p	roper shipping name	;			
ADR		: Not	regulated as	a dangerous good	
RID		: Not	regulated as	a dangerous good	
IMDG	3	: Not	regulated as	a dangerous good	
IATA	_P	: Not	regulated as	a dangerous good	
14.3 Trans	sport hazard class(e	5)			
ADR		: Not	regulated as	a dangerous good	
RID		: Not	regulated as	a dangerous good	
IMDG	3	: Not	regulated as	a dangerous good	
IATA	_P	: Not	regulated as	a dangerous good	
14.4 Pack	ing group				
ADR		: Not	regulated as	a dangerous good	
RID		: Not	regulated as	a dangerous good	
IMDG	6	: Not	regulated as	a dangerous good	
ΙΑΤΑ	(Cargo)	: Not	regulated as	a dangerous good	
IATA	_P (Passenger)	: Not	regulated as	a dangerous good	
14.5 Envi	ronmental hazards				
Not re	egulated as a dangero	us good			
-	ial precautions for u pplicable	ser			
14.7 Marit	time transport in bul	accordin	g to IMO ins	truments	
Regu Rema	latory basis arks		BC Code duct is not al	lowed to be transported in bulk.	



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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 pollutants (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	expl	0-
This product is regulated by Regulation (EU) 2019/1148: cious transactions, and significant disappearances and t should be reported to the relevant national contact point.	hefts	
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

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of other abbreviations

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 -

Commission Regulation (EU) 2020/878



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European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

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