

Version	Revision Date:	SDS Number:	Date of last issue: 19.11.2024
1.1	02.12.2024	M0169	Date of first issue: 19.11.2024

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

1.1 Product	identifier
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Trade name

: Hakaphos® Basis 5 5-20-30

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.

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.



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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		
boric acid	10043-35-3	Repr. 1B; H360FD	>= 0,1 - < 0,3
	233-139-2		
	005-007-00-2		
	01-2119486683-25-		
	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. 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 with soap and water.
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.



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lf swal	lowed	: Clean mouth w Obtain medica	ith water and drink afterwards plenty of water. attention.		
4.2 Most ir	4.2 Most important symptoms and effects, both acute and delayed				
Sympt	oms	: Ingestion may Methaemoglob	provoke the following symptoms: inemia		
4.3 Indication of any immediate medical attention and special treatment needed					
Treatn	nent	: Treat symptom	atically.		

SECTION 5: Firefighting measures

5.1 Extinguishing media 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
5.2 Special hazards arising from	the	e substance or mixture
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
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.
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.

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

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SECTION 6: Accidental release measures

6.1 Personal precautions, protecti	ve 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.
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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Pick up and transfer to properly labelled containers.
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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	:	The product is not flammable.
Hygiene measures	:	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.

7.2 Conditions for safe storage, including any incompatibilities

Further information on stor- age conditions	:	Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture.
Advice on common storage	:	Keep away from combustible materials. Keep away from strong acids.

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			Keep away from Keep away from	strong bases. food, drink and animal feedingstuffs.
Stora	ge class (TRGS 510)	: 1	3	
	er information on stor- stability	: P	Protect from frost	, heat and sunlight.
•	f ic end use(s) ific use(s)	: N	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
boric acid	10043-35-3	MAK (inhalable 10 mg/m3 DE DFG MAk fraction)		
	the embryo or	Further information: According to currently available information damage to the embryo or foetus cannot be excluded after exposure to concentrations at the level of the MAK and BAT values		
		AGW (Inhalable0,5 mg/m3DE TRGSfraction)(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		

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166
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. Equipment should conform to EN 14387
Filter type	:	Filter type P

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	Protect	ive measures	:	practice.	ance with good industrial hygiene and safety ed clothing before re-use.
SEC	TION	9: Physical and che	emic	al properties	
	n forma Physica	tion on basic physica al state	al an :		erties
	Colour		:	grey	
	Odour		:	none	
I	Melting	point/range	:	not determined	
ļ	Boiling	point/boiling range	:	not determined	
I	Flamma	ability	:	Will not burn	
		explosion limit / Upper bility limit	:	Not applicable	
		explosion limit / Lower bility limit	:	Not applicable	
I	Flash p	oint	:	Not applicable	
	Auto-ig	nition temperature	:	does not ignite	
I	Decom	position temperature	:	> 130 °C To avoid thermal	decomposition, do not overheat.
I	рН		:	ca. 3,3 (20 °C) Concentration: 1	00 g/l
:	Solubili Wat	ty(ies) er solubility	:	soluble	

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	tition coefficient: n- anol/water	: Not applicable	
Der	nsity	: not determine	d
Bul	< density	: ca. 1.300 kg/n	n ³
	er information losives	: Not explosive	
Oxi	dizing properties	: The substance	e or mixture is not classified as oxidizing.
Sel	-ignition	: not auto-flamr	nable

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.

Hazardous reactions	•	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
	Strong acids
	Powdered metals

10.6 Hazardous decomposition products

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



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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:		
boric acid: Acute oral toxicity	Assessment: The substance or mi	xture has no acute oral tox-
Acute inhalation toxicity	Assessment: The substance or mittion toxicity	xture has no acute inhala-
Acute dermal toxicity	Assessment: The substance or mit toxicity	xture has no acute dermal

Skin corrosion/irritation

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

Components:

boric acid: Assessment : No skin irritation

Serious eye damage/eye irritation

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

Components:

boric acid:

Assessment : No eye irritation

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:

boric acid:

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



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Germ	cell mutagenicity			
Based	d on available data, the	e clas	sification criteria	are not met.
<u>Comp</u>	ponents:			
	acid: cell mutagenicity- As- nent	:	Weight of evide cell mutagen.	ence does not support classification as a germ
	i nogenicity d on available data, the	e clas	sification criteria	are not met.
<u>Com</u>	ponents:			
	acid: nogenicity - Assess-	:	Not classifiable	as a human carcinogen.
•	oductive toxicity d on available data, the	e clas	sification criteria	are not met.
<u>Com</u> r	ponents:			
boric	acid:			
Effect	ts on fertility	:		r evidence of adverse effects on sexual func- , and/or on development, based on animal
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and fertil- evelopment, based on animal experiments
			No effects on c	r via lactation
Based	Γ - single exposure d on available data, the ponents:	e clas	sification criteria	are not met.
boric	acid:			
Asses	ssment	:		or mixture is not classified as specific target single exposure.
	- repeated exposure d on available data, the		sification criteria	are not met.
	ponents:			
	aaid			
boric	aciu:			



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Aspiration toxicity

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

Components:

boric acid:

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

boric acid:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l Remarks: Boron
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l Remarks: Boron
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 52,4 mg/l Remarks: Boron
Toxicity to fish (Chronic tox- icity)	:	NOEC: 6,4 mg/l Species: Danio rerio (zebra fish) Remarks: Boron
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 14,2 mg/l Species: Daphnia magna (Water flea) Remarks: Boron

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

Components:

boric acid:

Partition coefficient: n- : log Pow: -1,09 (22 °C) octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

|--|

Assessment	 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.
Components:	
boric acid:	
Assessment	 Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

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- dling site for recycling or disposal.

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SECTION 14: Transport information

14.1 UN number or ID number				
ADN	:	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				
ADN	:	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		
14.3 Transport hazard class(es)				
ADN	:	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		
14.4 Packing group				
ADN	:	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 (Cargo)	:	Not regulated as a dangerous good		
IATA_P (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards				
Not regulated as a dangerous good				

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments Regulatory basis : IMSBC Code

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Ren	narks	: Product is not a	Illowed to be transported in bulk.			
SECTIC	N 15: Regulatory info	ormation				
15.1 Saf ture	ety, health and environ	mental regulations/I	egislation specific for the substance or mix-			
the	ACH - Restrictions on the market and use of certain ures and articles (Annex	n dangerous substand				
	ACH - Candidate List of S cern for Authorisation (A		gh : boric acid			
-	ulation (EC) No 1005/20 e the ozone layer	09 on substances tha	t de- : Not applicable			
	ulation (EU) 2019/1021 (s (recast)	on persistent organic	pollu- : Not applicable			
	REACH - List of substances subject to authorisation : Not applicable (Annex XIV)					
	Regulation (EU) 2019/1148 on the marketing and use of explo- sives precursors					
ciou	This product is regulated by Regulation (EU) 2019/1148: all suspi- potassium nitrate (ANNEX cious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.					
pea con	eso III: Directive 2012/18 n Parliament and of the (trol of major-accident haz gerous substances.	Council on the	Not applicable			
Wat ny)	er hazard class (Germa-		hazardous to water ccording to AwSV, Annex 1 (5.2)			
Not relev	emical safety assessme ant ON 16: Other informat					
	text of H-Statements 0FD	: May damage fe	rtility. May damage the unborn child.			

Full text of other abbreviations

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DE TR DE DF	DE DFG MAK : Gerr DE TRGS 900 : Gerr DE DFG MAK / MAK : MAK		xicity BAT Annex IIa S 900 - Occupational exposure limit values. 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 - 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.

DE / EN