

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



## Hydrospeed® CaB-Max 15-0-0

Version: 2.8  
Date of last issue: 06.04.2023  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Hydrospeed® CaB-Max 15-0-0  
UFI : A7J5-G0CR-8001-S1A2

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

Use of the Substance/Mixture : Fertiliser  
Recommended restrictions on use : Reserved for industrial and professional use.

#### 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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 : H302: Harmful if swallowed.  
Serious eye damage, Category 1 : H318: Causes serious eye damage.  
Reproductive toxicity, Sub-category 1B : H360FD: May damage fertility. May damage the

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unborn child.

### 2.2 Label elements

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

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H318 Causes serious eye damage. H360FD May damage fertility. May damage the unborn child.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. <b>Storage:</b> P405 Store locked up.

### 2.3 Other hazards

Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.  
Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : blend  
contains  
Calcium nitrate

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Ammonium nitrate  
boric acid

### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Boric acid	11113-50-1  234-343-4  01-2119486683-25-XXXX	Repr. 1B; H360FD	<= 1,3
Nitric acid, ammonium calcium salt	15245-12-2  239-289-5  01-2119493947-16-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318	<= 100

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- 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 soap and plenty of water while removing all contaminated clothes and shoes.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire may cause evolution of:  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Should not be released into the environment.

### 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains, surface water or subsoil water.  
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 : Sweep up or vacuum up spillage and collect in suitable container for disposal.

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### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
Keep only in the original container.  
Protect from moisture.  
Keep away from direct sunlight.  
Protect against heat.
- Advice on protection against fire and explosion : The product is not flammable.
- Hygiene measures : Avoid contact with skin, eyes and clothing. No eating, drinking, smoking or snuff-taking at the place of work. Keep separated from food-stuffs and feed-stocks. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)
- Advice on common storage : Keep away from food and drink.  
Segregate from reducing agents.  
Segregate from combustible materials.
- Storage class (TRGS 510) : 13, Non Combustible Solids

### 7.3 Specific end use(s)

- Specific use(s) : Always read the label and product information before use.

## 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	11113-50-1	TWA	2,6 mg/m <sup>3</sup>	DE TRGS 900
		STEL	5,2 mg/m <sup>3</sup>	DE TRGS 900

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			0,5 mg/m3	
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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrospeed® CaB-Max 15-0-0	Workers	Ingestion		
Remarks:	No data available			
	Workers	Skin contact		14,27 mg/kg
	Workers	Inhalation		25,16 mg/m3
	Consumers	Ingestion		8,55 mg/kg
	Consumers	Skin contact		8,55 mg/kg
	Consumers	Inhalation		6,54 mg/m3

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

Substance name	Environmental Compartment	Value
Hydrospeed® CaB-Max 15-0-0	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Intermittent use/release	4,5 mg/l
	Behaviour in waste water treatment plants	18 mg/l

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation.

### Personal protective equipment

Eye protection : Avoid contact with eyes.

Safety glasses with side-shields conforming to EN166

Hand protection

Remarks : Chemical resistant protective gloves (EN 374).

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Skin and body protection : Wearing of closed work clothing is recommended.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.  
Effective dust mask

### Environmental exposure controls

General advice : Do not let product enter drains, surface water or subsoil water.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Solid form

Colour : white to light yellow

Odour : odourless

Odour Threshold : No data available

pH : 5 - 7, Concentration: 50 g/l

Melting point/range : 98 °C

Boiling point/boiling range : Not applicable

Flash point : No data available

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

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Relative vapour density	: Not applicable
Density	: 0,95 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: 2.000 g/l soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: Stable at normal ambient temperature and pressure.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with reducing agents.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.  
Keep away from direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : Strong reducing agents



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## 10.6 Hazardous decomposition products

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Components:

##### **Boric acid:**

Acute oral toxicity : LD50 (Mouse): 3.450 mg/kg

LD50 (Rat): 2.660 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2 mg/l

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

##### **Nitric acid, ammonium calcium salt:**

Acute oral toxicity : LD50: > 300 mg/kg

Acute inhalation toxicity : Remarks: Not relevant because of low vapour pressure.

Remarks: Not relevant because of low dust formation.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Guideline 402

#### Skin corrosion/irritation

##### Components:

##### **Boric acid:**

Species: Rabbit

Result: No skin irritation

##### **Nitric acid, ammonium calcium salt:**

Species: Rabbit

Result: No skin irritation

#### Serious eye damage/eye irritation

##### Components:

##### **Boric acid:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

##### **Nitric acid, ammonium calcium salt:**

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Species: Rabbit  
Result: Irritating to eyes.

### Respiratory or skin sensitisation

#### Components:

##### **Boric acid:**

Method: OECD Test Guideline 406  
Result: non-sensitizing

### germ cell mutagenicity

#### Components:

##### **Boric acid:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Result: Mutagenicity tests revealed no genotoxic potential.  
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show  
mutagenic effects.

### Carcinogenicity

#### Components:

##### **Boric acid:**

Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 451  
Remarks: Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

#### Components:

##### **Boric acid:**

Effects on foetal  
development : Remarks: Animal ingestion studies in several species, at high  
doses, indicate that borates cause reproductive and  
developmental effects.

Reproductive toxicity -  
Assessment : May damage fertility. May damage the unborn child.

### Aspiration hazard

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

## 11.2 Information on other hazards

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### Endocrine disrupting properties

No data available

### Experience with human exposure

#### Product:

General Information : Danger of methaemoglobin formation.

### Further information

#### Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Nitric acid, ammonium calcium salt:**

Toxicity to fish : LC50 (Guppy): 1.378 mg/l  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 490 mg/l

Toxicity to algae : LC50 (other aquatic plant): > 1.700 mg/l

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

#### Components:

##### **Boric acid:**

Biodegradability : Remarks: Not applicable

##### **Nitric acid, ammonium calcium salt:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

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### Components:

#### **Nitric acid, ammonium calcium salt:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### Components:

#### **Boric acid:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.. Product does not contain substances which are 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)..  
Remarks: Not applicable

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Fertiliser  
May contribute to eutrophication in static waters, therefore should not be released into surface waters.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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Product	: Check if agriculture use is possible.
Contaminated packaging	: Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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### 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

Segregation group : : (-)

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

Remarks : Not relevant

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### SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : contains Boric acid

Fire Hazard Class : Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water

Other regulations : This product is subject to Regulation (EU) 2019/1148; suspicious transactions, disappearance or theft of the product must be reported to the relevant authority.

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### 15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

### SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.  
H360FD : May damage fertility. May damage the unborn child.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity

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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