

## Safety Data Sheet

Phytohemagglutinin M (PHA-M)

According to Regulation (EC) No. 1907/2006 (REACH) and 2020/878

Date of compilation 04.10.2017

Revision Date 21.01.2026

Version 004/01.2026

Replaces version of 15.01.2024 (003/01.2024)

### Section 1 Identification of the substance/mixture and of the company/undertaking

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#### Product identifiers

Product name: Phytohemagglutinin M (PHA-M)

Catalogue No.: PHA-H

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified uses: Laboratory chemicals, Manufacture of substances  
For research and development or in-vitro diagnostic use only.  
Not for therapeutic use. Not for use on human subjects.

#### Details of the supplier of the safety data sheet

Company: Capricorn Scientific GmbH  
Auf der Lette 13 A  
35085 Ebsdorfergrund  
Germany

Phone: +49 6424 94464 0

E-Mail: info@capricorn-scientific.com

Website: www.capricorn-scientific.com

#### Emergency telephone number

Emergency Phone: +49 6424 94464 0 (on workdays, Mon. to Fri. from 8:00 – 16:00 h CET/CEST)

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### Section 2 Hazards identification

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#### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required according to Regulation (EC) No 1272/2008.

#### 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.

### Section 3 Composition/information on ingredients

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#### Mixtures

The product contains no components which at their given concentration, are considered to be hazardous to health.

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### Section 4 First aid measures

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#### Description of first aid measures

<b>General notes</b>	Show this material safety data sheet to the doctor in attendance.
<b>Following skin contact</b>	Wash off with soap and plenty of water. In case of modifications on the skin, seek medical advice with this safety data sheet.
<b>Following eye contact</b>	Remove contact lenses. Rinse immediately carefully and thoroughly with eyebath or water. If eye irritation persists: Get medical advice/attention.
<b>Following ingestion</b>	Make victim drink water (two glasses at most). Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>Following inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
<b>Following swallowing</b>	Make victim drink water (two glasses at most). Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Consider personal protective equipment as indicated in section 8.
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

### Section 5 Firefighting measures

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#### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Drychemical.
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.

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

<b>Hazardous combustion products:</b>	Not Combustible Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides,
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**Advice for firefighters** No data available

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### Section 6 Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions** No special precautionary measures necessary.

#### Methods and material for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry.

**Reference to other sections** For disposal see section 13

### Section 7 Handling and storage

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**Precautions for safe handling** For precautions see section 2.

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

##### Storage

Conditions: Tightly closed.

Recommended storage temperature: Store at  $\leq -15^{\circ}\text{C}$ .

After thawing, the PHA-M is stable for at least 1 month at  $+2^{\circ}\text{C}$  to  $+8^{\circ}\text{C}$ .

##### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

### Section 8 Exposure controls/personal protection

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**Control parameters** Components with workplace control parameters.

#### Exposure controls

##### Personal protective equipment

##### Eye protection

Safety glasses according to government standards (NIOSH (US) or EN166 (EU)).

##### Respiratory protection

Not required

##### Skin protection

Not required

**Environmental exposure controls** No special precautionary measures necessary.

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### Section 9 Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state	liquid (20 °C)
Colour	colourless
Odour (Treshold)	No data available
Melting/freezing point	No data available
Initial boiling point and range	No data available
Flammability (solid, gas)	No data available
Upper/lower explosion limit	No data available
Flash point	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity - Kinematic:	No data available
- Dynamic:	No data available
Water solubility	completely miscible
Partition coefficient [n-octanol/water]	No data available
Vapour pressure	No data available
Density/Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available
Oxidizing properties	none

Other information No data available

### Section 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	The product is chemically stable under recommended conditions.
Possibility of hazardous reactions	Violent reactions possible with: The known reaction partners of water.
Conditions to avoid	No information available
Incompatible materials	Substances which, in contact with water, emit flammable gases (Hazard class 4.3)
Hazardous decomposition products	In the event of fire: see section 5

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### Section 11 Toxicological information

#### Information on toxicological effects

<b>Acute toxicity</b>	Oral:	No data available
	Inhalation:	No data available
	Dermal:	No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

**Carcinogenicity** No data available

**Reproductive toxicity** No data available

#### Specific target organ toxicity

- single exposure	No data available
- repeated exposure	No data available

**Aspiration hazard** No data available

#### Additional Information

##### Endocrine disrupting properties

**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.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12 Ecological information

**Toxicity Mixture** No data available

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Results of PBT and vPvB 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.

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### 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.

**Other adverse effects** No data available

## Section 13 Disposal considerations

### Waste treatment methods

**Product:**

Discourage sewage disposal. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Dispose of as unused product. Dispose of waste according to applicable legislation.

## Section 14 Transport Information

In accordance with ADR / RID / IMDG / IATA

ADR/RID	IMDG	IATA
<b>UN number</b>		
-	-	-
<b>UN proper shipping name</b>		
Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Transport hazard classes</b>		
-	-	-
<b>Packaging group</b>		
-	-	-
<b>Environmental hazards</b>		
no	Marine pollutant: no	no

**Special precautions for user** Not classified as dangerous in the meaning of transport regulations.

**Maritime transport in bulk according to IMO instruments** No data available

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### Section 15 Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment** For this product a chemical safety assessment was not carried out.

### Section 16 Other information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product.

#### 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;  
AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight;  
CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;  
DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;  
EmS - Emergency Schedule; ENCS - Existing & 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; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory;  
TSCA - Toxic Substances Control Act (United States); UN - United Nations;  
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative