SAFETY DATA SHEET

1. Identification of the substance or agent and the company or business

1.1 Identification of the substance or agent:

HERGIT®

1.2 Use of the substance or agent: As a plant growth regulator.

1.3 Manufacturer/importer identification:

Name or trade name: BIOSFOR, spol. s r.o.

Place of business or registered address: Slepotice 36, 530 02 Pardubice

Company ID number: 25986988

Phone: +420 466 401 703

Fax: +420 466 401 703

Name or trade name of the supplier: Chemap Agro s. r. o.,

Place of business or registered address: Dašice 475, 533 03 Dašice

Company ID number: 27482308

Phone: +420 466 670 750

Fax: +420 466 670 893

E-mail: vladimir.cech@chemap.cz

1.4 Emergency phone number: +420 224 915 402, +420 224 919 293 at any time

2. Hazards identification

Not classified as hazardous.

3. Composition or information on ingredients

3.1 Composition:

3.3 Hazardous substances contained in an agent that is not classified as hazardous:

Name	Concentration in %	CAS	EC (EINECS)	Hazard symbol	R-phrases	Classification acc. to Reg. (EC) No. 1272/2008
2-aminobenzoic acid	1.25	118-92-3	204-287-5	Xn	22-36/37/38	Acute Tox. 4 H302 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315
2-hydroxybenzoic acid	0.63	69-72-7	200-712-3	Xn	22-36/37/38	Acute Tox. 4 H302 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315
2-aminopentanedioic acid	0.6	56-86-0	200-293-7	-	-	-

3.5 Name and registration number: see section 3.1

3.6 Chemical nature of substances in accordance with Article 15 of Directive 1999/45/EC or footnotes to section 3.3: -

The full text of the R-phrases is given in section 16.

4. First aid measures

4.1 General instructions: If you experience any adverse effects or are in doubt, you must notify a health professional and provide them with the information from this SDS or the label on the container.
4.2 Inhalation: Leave the contaminated area, keep still and ensure protection from the cold.
4.3 Skin: Remove contaminated clothing and wash yourself thoroughly with soap and water.
4.4 Eyes: Rinse with a stream of lukewarm, clean water for 15 minutes.
4.5 Ingestion: Drink 0.5 l of lukewarm water with 5 tablets of activated charcoal.
4.6 Other information: None.

5. Fire-fighting measures

5.1 Suitable extinguishing media: The product is non-flammable. Adapt the extinguishing media to the environment.
5.2 Unsuitable extinguishing media: None.
Special hazards: None.
5.3 Special protective equipment for firefighters: None.
5.4 Other information: None.

6. Accidental release measures

6.1 Personal precautions: Avoid contact with skin.
6.2 Environmental precautions: Prevent entry into sources and receiving bodies of surface and groundwater.

6.3 Recommended cleaning and containment methods: Allow to soak into an absorbent and flammable material (sawdust) and burn at temperatures above 1200 °C.
6.4 Note: Use the personal protective equipment listed in section 8 and dispose of in accordance with section 13.

7. Handling and storage

7.1 Handling: Use personal protective equipment. Prevent entry into sewage systems and groundwater.
7.2 Storage: Store separately from food and feed in a warehouse at a temperature of +5 to +40 °C. Protect from direct sunlight and radiant heat.
Packaging materials: Plastic.
7.3 Specific uses: None.

8. Exposure control / personal protection

8.1 Exposure limit values: No PEL data is available.
No MAC data is available.
8.2 Limiting exposure: No special measures are necessary.
8.2.1 Limiting worker exposure: Observe basic hygiene practices for working with chemicals.
8.2.1.1 Respiratory protection: Not necessary.
8.2.1.2 Hand protection: Protective gloves – material: nitrile 0.1 mm, breakthrough time 480 min.
8.2.1.3 Eye protection: Protective goggles or face shield.
8.2.1.4 Skin protection: Workwear.
8.2.2 Limiting environment exposure: Prevent entry into sewage systems and groundwater.

9. Physical and chemical properties

9.1 General information:
State of matter (at 20 °C): Liquid.
Colour: Colourless to slightly brownish.
Smell or odour: Faint, characteristic of the raw materials.
9.2 Important health, safety and environmental information
pH value (at °C): 6.0 to 7.0.
Melting point (temperature range; °C): < -8 °C.
Boiling point (temperature range; °C): 100–102 °C.
Flash point (°C): N/A.
Flammability: Non-flammable substance.
Pyrophoricity: N/A.
Explosive limits: upper limit (% of vol.): N/A.
lower limit (% of vol.): N/A.
Oxidising properties: None.
Vapour pressure (at 20 °C): 2.4 kPa

	Density (at 20 °C):	1000–1015 kg/m^3.
	Solubility (at °C):	
	- in water	Unlimited,
	- in fats	insoluble.
	(including oil specifications)	
	Partition coefficient n-octanol/water:	Data not available.
	Evaporation rate:	Not determined.
9.3	Other information:	None.

10. Stability and reactivity

	Conditions under which the product is stable:	Normal pressure and temperature.
10.1	Conditions to avoid:	Direct sunlight and radiant heat.
10.2	Materials to avoid:	Substances that react with water.
10.3	Hazardous decomposition products:	None.

11. Toxicological information

11.1 Acute toxicity

- $LD_{50,}$ oral, rat (mg.kg^{-1}):	> 2000,
- $LD_{50,}$ dermal, rat or rabbit (mg.kg^{-1}):	data not available.
- $LC_{50,}$ inhalation, rat, for aerosols or particles (mg.kg^{-1}):	data not available,
- $LC_{50,}$ inhalation, rat, for gases and vapours (mg.kg^{-1}):	data not available

Toxicokinetics:	Not known.
Metabolism and distribution:	Not known.
Sensitisation:	No known sensitisation effects.
Carcinogenicity:	No known carcinogenic effects.
Mutagenicity:	Ames test (Salmonella typhimurium) TA97, TA98, TA100 negative result.
Reproductive toxicity:	Not known.
Human experience:	HoDL: Data not available.
Animal testing:	see section 11.1
Other information:	
Eye test – degree of damage:	0 non-irritating.
Skin test – degree of damage:	0 non-irritating.
Toxicity to bees:	Not proven.

12. Ecological information

Acute toxicity to aquatic organisms

12.1 Ecotoxicity:

- $LC_{50,}$ 96 h, fish (mg.kg^{-1}):	data not available,
- $EC_{50,}$ 48 h, daphnia (mg.kg^{-1}):	data not available,
- $IC_{50,}$ 72 h, algae (mg.kg^{-1}):	data not available.

12.2	Mobility:	No data available.
12.3	Persistence and degradability:	The product is not biodegradable in its raw state. After prior treatment (coagulation, flocculation, electroflocculation, etc.) and subsequent separation of the precipitated sludge, which is burnable, the remaining water is (after possible dilution) biodegradable.
12.4	Bioaccumulative potential:	Data not available.
12.5	Results of PBT assessment:	Not conducted.
12.6	Other adverse effects:	Not known.

13. Disposal considerations

13.1	Safe waste management:	Transfer to a replacement container and hand over to authorised personnel for disposal.
13.2	Disposal of the substance/agent:	Allow spills of the concentrate to soak into an absorbent combustible material, which shall then be incinerated in a waste incinerator in accordance with Act No. 185/2001 Coll. on Waste, as amended, and related acts.
	Disposal of contaminated packaging:	The residual concentrate must be rinsed out with water which will be used to prepare a new application solution. After rinsing, empty containers must be recycled or incinerated at a temperature higher than 1200 °C in accordance with Act No. 185/2001 Coll. on Waste, as amended, and related acts.
13.3	Legal provisions:	Act No. 185/2001 Coll. on Waste, as amended, and related acts.

14. Transport information

Not classified as hazardous.

14.1 Preventive measures for transport inside or outside of the company: Transport in ADR-compliant packaging.

15. Regulatory information regarding the substance or the agent

A chemical safety assessment has not been carried out.

15.1 Labelling of packaging

Not classified as hazardous.

Hazard symbols: None.

R-phrases: None.

S-phrases: S 7 Keep container tightly closed.
S 20/21 When using do not eat, drink or smoke.
S 37/39 Wear suitable gloves and eye/face protection.

Follow the instructions for use to avoid risks to individuals and the environment.

Names of chemical substances listed on the container: 2-aminobenzoic acid, 2-hydroxybenzoic acid, 2-aminopentanedioic acid.

15.2 Specific provisions for the protection of persons or the environment at an EC level: None.

15.3 Legislation that applies to the substance/agent:
Act No. 356/2003 Coll., as amended, and related acts.
Act No. 156/1998 Coll., as amended, and related acts.
Decree No. 273/1998 Coll., as amended, and related acts.
Decree No. 274/1998 Coll., as amended, and related acts.
Decree No. 474/2000 Coll., as amended, and related acts.
Regulation (EC) No. 2003/2003.
Act No. 185/2001 Coll. on Waste, as amended, and related acts.
Government Regulation No. 178/2001 Coll. determining the conditions for the protection of employees' health at work, as amended, and related acts.
Act No. 86/2002 Coll. on air protection, as amended, and related acts.
Act No. 477/2001 Coll. on packaging, as amended, and related acts.
Act No. 59/2006 Coll. on prevention of major accidents, as amended, and related acts.
Act No. 258/2000 Coll. on protection of public health, as amended, and related acts.
Agreement of 30 September 1957 concerning the International Carriage of Dangerous Goods by Road, as amended.
Regulation (EC) No. 1907/2006.
Regulation (EC) No. 1272/2008.

16. Other information

R-phrases: R 22 Harmful if swallowed, R 36/37/38 Irritating to eyes, respiratory system and skin.
Instructions for employee training: Conduct training according to the applicable OSH regulations, fire regulations, the Agreements Concerning the International Carriage of Dangerous Goods by Rail and by Road (ADR/RID), packaging regulations and waste regulations, especially with regard to health, safety and environmental protection.
Recommended restrictions on use: None.
Contact for providing technical information: +420 737 935 852
Sources used to compile the safety data sheet: Safety data sheet of the manufacturer.
New, amended or deleted information: Classification according to Regulation (EC) No. 1272/2008 in section 3.
The information contained in this Safety Data Sheet relates only to the product listed and is to the best of our current knowledge and experience and may not be exhaustive. The user is responsible for handling the product in accordance with applicable laws.