

Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev. Date / Revised: 16.08.2022 Product: **Component B of Rhizoflo Professional**

Version: 2.0

(ID no. 30843887/SDS_CPA_00/EN)

Date of print 15.01.2024

1. Identification

Product identifier

Component B of Rhizoflo Professional

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

Relevant identified uses: Biological beneficial agent

Details of the supplier of the safety data sheet

<u>Company:</u> BASF South Africa (Pty) Ltd 852 Sixteenth Road Midrand P O Box 2801 Halfway House 1685 SOUTH AFRICA

Telephone: +27 11 203 2400

Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

No need for classification according to GHS criteria for this product.

Label elements

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Globally Harmonized System (GHS)

Precautionary Statement:P101If medical advice is needed, have product container or label at hand.P102Keep out of reach of children.P103Read carefully and follow all instructions.

The product does not require a hazard warning label in accordance with GHS criteria.

Labeling of special preparations (GHS): May produce an allergic reaction. Contains: 1,2-Benzisothiazol-3(2H)-one Micro-organisms may have the potential to provoke sensitising reactions.

Other hazards

According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

Contains: biological beneficial organism, Bacillus amyloliquefaciens

does not contain: Genetically modified organism

Hazardous ingredients (GHS) According to UN GHS criteria

1,2-Benzisothiazol-3(2H)-one

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Content (W/W): < 0,05 %

CAS Number: 2634-33-5

EC-Number: 220-120-9 INDEX-Number: 613-088-00-6

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Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 1 M-factor chronic: 1 H318, H315, H302, H317, H400, H410

Specific concentration limit: Skin Sens. 1: >= 0,05 %

Glycerol

Content (W/W): < 60 % CAS Number: 56-81-5 EC-Number: 200-289-5

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

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Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide, nitrogen oxides, sulfur oxides The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

56-81-5: Glycerol

Exposure controls

Personal protective equipment

Respiratory protection: Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form: Colour: Odour:	liquid beige cereal-like
Odour threshold:	Not determined due to notential
	Not determined due to potential health hazard by inhalation.
pH value:	approx. 6 - 8 (20 °C)
Melting temperature:	approx. 0 °C
boiling temperature:	Information applies to the solvent. approx. 100 °C
bolling temporataron	Information applies to the solvent.
Flash point:	
	A flash point determination is unnecessary due to the high water content.

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	Eveneration rates	Date of print 15.
	Evaporation rate:	not applicable
	Flammability: Lower explosion limit:	not applicable
	Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
	Opper explosion limit.	As a result of our experience with this
		product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
	Ignition temperature:	
	.gen temperatarer	Based on the composition, the
	Vapour pressure:	product does not ignite approx. 23,4 hPa (20 °C)
	Density:	Information applies to the solvent. approx. 1,16 g/cm3 (20 °C)
	Relative vapour density (
		not applicable
	Solubility in water:	soluble
Partitioning coefficient n-octanol/water (log Kow):		
	T I I. I	not applicable
	Thermal decomposition: Viscosity, dynamic:	No decomposition if stored and handled as prescribed/indicated. 1 mPa.s (20 °C)
	Explosion hazard:	Information applies to the solvent. Based on the chemical structure there is no indication of explosive properties.
	Fire promoting properties	Based on its structural properties the product is not classified as oxidizing.

Other information

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid: strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 rat (oral): > 5.000 mg/kg

(by inhalation):Not inhalable due to the physico-chemical properties of the product.

LD50 (dermal): > 5.050 mg/kg

Irritation

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,2-Benzisothiazol-3(2H)-one Experimental/calculated data: Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)

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Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organtoxicity was observed after repeated administration to animals.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

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12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,2-Benzisothiazol-3(2H)-one Toxicity to fish: LC50 (96 h) 2,15 mg/l, Oncorhynchus mykiss (OECD Guideline 203, static)

Information on: 1,2-Benzisothiazol-3(2H)-one Aquatic invertebrates: EC50 (48 h) 2,9 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Information on: 1,2-Benzisothiazol-3(2H)-one Aquatic plants: EC50 (96 h) 0,110 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201, static)

No observed effect concentration (96 h) 0,040 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Persistence and degradability

Assessment biodegradation and elimination (H2O): The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,2-Benzisothiazol-3(2H)-one Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,2-Benzisothiazol-3(2H)-one Bioaccumulation potential: Bioconcentration factor: 6,62 (56 d), Lepomis macrochirus (measured)

Mobility in soil

Assessment transport between environmental compartments: Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: 1,2-Benzisothiazol-3(2H)-one Assessment transport between environmental compartments: Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

UN number or ID number:

Land transport

ADR

UN number or ID number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user	Not classified as a dangerous good under transport regulations Not applicable Not applicable Not applicable Not applicable Not applicable None known
RID	
	Not classified as a dangerous good under transport regulations

Not applicable

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UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Packing group: Not applicable Environmental hazards: Not applicable Special precautions for None known user

Inland waterway transport

UN number or ID number:

Environmental hazards:

Special precautions for

ADN

user:

Not classified as a dangerous good under transport regulations Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Not applicable Not applicable None known

Transport in inland waterway vessel Not evaluated

Sea transport

Packing group:

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user	

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user	

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:		
Acute Tox.	Acute toxicity	
Skin Corr./Irrit.	Skin corrosion/irritation	
Eye Dam./Irrit.	Serious eye damage/eye irritation	
Skin Sens.	Skin sensitization	
Aquatic Acute	Hazardous to the aquatic environment - acute	
Aquatic Chronic	Hazardous to the aquatic environment - chronic	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.