

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Date of issue: 26.11.2019

Supersedes date: ---

PROMETHEUS[®] CZ

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: PROMETHEUS[®] CZ

Chemical name: bacteria Pseudomonas veronii

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

Auxiliary herbal preparation intended for the treatment of winter and spring oilseed rape. Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Mikrobiologický ústav AV ČR, v.v.i., BTH, Vídeňská 1083, 142 20 Praha 4 – Krč, Czech Republic

Supplier: RNDr. David Novotný, Ph.D., MONAS technology, Plav 122, 370 07 České Budějovice, Czech Republic, VAT: CZ8207041502

E-mail address of competent person responsible for the SDS: monas.technology@seznam.cz

1.4 Emergency telephone number

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, **Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).**

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC (CLP):

The substance is not classified as dangerous according to the regulation CLP.

2.2 Label elements

Not required.

2.3 Other hazards

None known. The substance does not meet the criteria for classification as a PBT or vPvB substance according to Annex XIII of Regulation (EC) 1907/2006.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Bacteria Pseudomonas veronii - 10⁶ - 10¹⁰ KTJ/g.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: Exposure is not expected.

In case of skin contact: Wash the affected area immediately with warm water and soap and rinse well.

In case of contact with eyes: Flush open eyes with plenty of water for at least 15 minutes. Remove contact lenses, if used. If symptoms persist, consult a doctor.

If ingested: Rinse mouth with water and drink about 0,5 l of water. Seek medical advice and show the doctor the packaging or label of this product. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Not specified. Show this safety data sheet to your doctor in case of problems.

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SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable – water solution.

Suitable extinguishing media: adapt extinguishing agent to surrounding conditions.

Unsuitable extinguishing media: none known.

5.2 Special hazards arising from the substance or mixture

No special measures.

5.3 Advice for firefighters

The product is not flammable – water solution. Does not support fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special measures.

6.2 Environmental precautions

No special measures.

6.3 Methods and material for containment and cleaning up

No special measures.

6.4 Reference to other sections

See section 7 for handling, section 8 for personal protective equipment, section 13 for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

The usual principles of personal hygiene and safety at work must be observed. It is forbidden to eat, drink and smoke while working with the product. Protective equipment should also be worn. Always wash hands thoroughly with water and soap after work and before eating and treat the skin with a reparation cream.

7.2 Conditions for safe storage, including any incompatibilities

Prometheus should be stored in sealed original containers, away from direct sunlight, in dry, locked storage, separately from food, beverages and feed, disinfectants, and containers from 5 to 20°C. Protect the product from frost, direct sunlight and radiant heat. Keep out of reach of children.

Incompatible products: Do not combine with morphoregulators, fertilizers containing boron, fertilizers with content of nitrogen higher than 10%, stabilizers of nitrogen.

Mixing with fungicides, herbicides, insecticides or fertilizers containing less than 10 % of nitrogen should be consulted with the manufacturer or distributor.

When preparing the application mixture, it is necessary not to mix the individual concentrates with each other, but to add them to the spray tank separately and with stirring.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Not established.

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8.2 Exposure controls

8.2.1 Appropriate engineering controls

No special measures.

8.2.2 Individual protection measures, such as personal protective equipment

Always wash hands thoroughly with water and soap after work and before eating and treat the skin with a reparation cream.

- a) **Eye/face protection:** protective glasses.
- b) **Skin protection:** i) *Hand protection:* work gloves.
ii) *Other:* protective clothing.
- c) **Respiratory protection:** not required.
- d) **Thermal hazards:** not expected when storage conditions are respected.

8.2.3 Environmental exposure controls

Avoid release to the environment.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (at 20°C):	liquid – suspension in water
Odour:	slight odour of yeast
Odour threshold:	not determined
pH:	5,0-9,0 (as the medium ages, the pH rises)
Melting point/freezing point (°C):	0
Initial boiling point and boiling range (°C):	100
Flash point (°C):	>60
Evaporation rate:	not determined
Flammability:	not determined
Upper/lower flammability or explosive limits:	not determined
Vapour pressure:	not determined
Relative vapour density:	not determined
Relative density:	not determined
Solubility(ies) in water:	Active agens - live bacteria <i>Pseudomonas veronii</i> do not dissolve, after decay, decomposition processes of organic matter.
Partition coefficient n-octanol/water:	not determined
Auto-ignition temperature (°C):	not determined
Decomposition temperature (°C):	60
Viscosity, kinematic:	not determined
Explosive properties:	not determined
Oxidizing properties:	not determined

9.2 Other information

No data available.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

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10.2 Chemical stability

Product is chemically stable under normal conditions. Active agents - Pseudomonas veronii bacteria can only survive in soil.

10.3 Possibility of hazardous reactions

Not reactive.

10.4 Conditions to avoid

Temperatures <0°C and >35°C, UV radiation.

10.5 Incompatible materials

Bacteria Pseudomonas veronii quickly die in combination with morphoregulators, fertilizers containing boron, fertilizers with content of nitrogen higher than 10%, stabilizers of nitrogen.

10.6 Hazardous decomposition products

No decomposition products.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	The classification criteria are not met.
Skin corrosion/ irritation:	The classification criteria are not met.
Serious eye damage/ eye irritation:	The classification criteria are not met.
Respiratory/ skin sensitization:	The classification criteria are not met.
Carcinogenicity:	The classification criteria are not met.
Germ cell mutagenicity:	The classification criteria are not met.
Reproductive toxicity:	The classification criteria are not met.
Specific target organ toxicity:	The classification criteria are not met.
Aspiration hazard:	The classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

The mixture is not classified as harmful to aquatic life.

12.2 Persistence and biodegradability

The bacteria may persist in the soil. It naturally decomposes in the soil as an organic matter.

12.3 Bioaccumulative potential

The substance has no bioaccumulative properties, does not form any toxic compounds with air and waste water substances.

12.4 Mobility in soil

Yes.

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for classification as a PBT or vPvB substance according to Annex XIII of Regulation (EC) 1907/2006.

12.6 Other adverse effects

No data available.

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SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Empty packaging should be recycled or incinerated at an approved incineration plant. Remnants of the preparation can be poured on the compost or on the manure. Do not empty remnants into water sources.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Transport in dry, covered and clean means of transport, in compliance with all hygienic conditions, at temperatures up to 20°C.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15 REGULATORY INFORMATION

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

Regulation of the European Parliament and the Council (EC) No. 1907/2006 (REACH).
Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP).
Commission Regulation (EU) No. 830/2015.

15.2 Chemical safety assessment

Not applicable.

SECTION 16 OTHER INFORMATION

Date of issue: 26.11.2019

Revision notes: not applicable.

Note:

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.