



Material Safety Data Sheet

According to regulation (EG) No. 1907/2006, Appendix II, changed with 2015/830/EU

FZB24® WG

Drawn up by: ABiTEP GmbH

Version: 01-21

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier:	<i>Bacillus velezensis</i> ABi19
1.2.1	Relevant identified uses of the substance or mixture:	Biostimulant/Soil improver/Soil enhancer
1.2.2	Uses advised against:	No Information
1.3	Details of the supplier:	ABiTEP GmbH Glienicke Weg 185 12489 Berlin Germany Tel.: +49-(0)30-670570 info@abitep.de
1.4	Emergency Number:	+49(0)30 19 240 (German Toxicology Center)

2. POSSIBLE DANGERS		
2.1	Classification of the substance or mixture:	Classification in compliance with Regulation 1272/2008 (CLP): not determined Classification in compliance with Regulation 67/548/EWG and 1999/45/EG: The mixture is non-hazardous within the meaning of the Regulation 1999/45/EG
2.2	Label elements:	Labeling in compliance with regulation 1272/2008 (CLP): not determined Labeling in compliance with regulation 67/548/EWG and 1999/45/EG: not applicable
2.3	Other hazards:	The mixture does not fulfill the criteria for classification as a PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS		
WG: Mixture of natural, non-human pathogenic spores of the microorganism <i>Bacillus velezensis</i> ABi19 (Risk-group 1) with cornstarch as carrier material.		

4. FIRST AID MEASURES

4.1 description of First-Aid Measures

General information:	Remove contaminated, saturated clothing immediately. Appearance of health disorders: consult a doctor.
Exposure by Inhalation:	Remove casualty to fresh air and keep warm and at rest.
Exposure by skin:	Wash immediately with soap and water. In case of skin irritation consult a physician.
Exposure by eyes contact:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Exposure by Ingestion:	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed: No information

4.3 Indication of any immediate medical attention and special treatment needed: No information

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Appropriate extinguishing media:	No information
Inappropriate media:	No information
5.2 Special hazards arising from substance or mixture:	Not known
5.3 Advice for fire fighters:	Self-contained breathing apparatus should be worn. Do not inhale explosion- and combustion gases. Wear suitable protective clothing to avoid skin exposure. Observe a safety distance. Prevent fire-fighting water from entering surface and ground water and soil. Disposal according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:	There are no special procedures to be taken. Possibly to attend slip hazard.
6.2 Environmental Precautions:	No specific recommendations. Avoid areal extend.
6.3 Methods and material for containment and cleaning up:	For great quantity: pump down the product. For residue: put up beaten material with liquid binding material (sand) and collect it for disposal in compliance with administrative regulations.
6.4 link to other chapters:	For personal protection see chapter 8. No exposition of hazardous substances. See chapters 7, 8 and 13.



7. HANDLING AND STORAGE	
7.1 Precautions for safe handling:	The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure. The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use Do not eat, drink and smoke during the work Consider operating instruction.
7.2 Conditions for safe storage, including any incompatibilities:	The floor of the depot should be impermeable Product should only be kept in the original packaging. Product should be kept dry and protected of insolation. Keep containers tightly closed when not in use. Recommended storage temperature: 10°C to 25°C. Avoid elevated temperatures.
7.3 specific end-application:	No information

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Control parameters:	No information
8.2 Exposure control:	No information
Appropriate engineering controls:	Sufficient ventilation
Individual protection measures, such as personal protective equipment:	The substance should be handled under conditions of good industrial hygiene in dealing with chemicals. See chapter 7.
Eye/face Protection:	In danger of splash: use suitable safety glasses (EN 166).
Skin Protection:	In case of prolonged/frequent direct handling of the material it is recommended to wear chemical protective clothing.
Hand Protection:	Chemical protective gloves should be provided.
Body Protection	Protective work wear.
Respiratory Protection:	Fine dust mask at least FFP1
Exposure and control of environment:	See chapter 6 and 7.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:	
	Appearance	Powder
	Colour	White – beige / white-grey
	Odour	slightly
	Boiling point / boiling range	Not determined
	Melting point / melting range	Not determined
	Flash point	Not determined
	Flammability (solid, gas)	Not determined
	Explosive properties LEL	Not determined
	Explosive properties EL	Not determined
	Vapour pressure	Not determined
	Vapour density	Not determined
	Specific gravity	Not determined
	Bulk density	Not determined
	Relative vapor density (air=1)	Not determined
	Solubility in water	Soluble
	pH-value	Not determined
	Partition coefficient	Not determined
	Viscosity	Not determined
	Explosion properties	None known
	refraction index	Not determined
9.2	Other information	Not determined

10. STABILITY AND REACTIVITY

10.1	REACTIVITY:	No information
10.2	Chemical stability:	No information
10.3	Possibility of hazardous reactions:	No information
10.4	Conditions to avoid:	See chapter 7.
10.5	Incompatible materials:	Strong acids or alkali compounds may inactivate biological cultures. Temperature > 100 °C.
10.6	Hazardous decomposition products:	No information

11. TOXICOLOGICAL INFORMATION

11.1	Data to toxicological effects:	
	Acute toxicity:	No information
	Irritation:	No information
	Sensitization:	No information
	Grave effects after repeated or longer exposition:	No information
	Carcinogenicity:	No information
	Germ cell mutagenicity:	No information
	Reproductive toxicity:	No information
	Specific effects in animal experimentation:	No information
	Other information:	No information
	Aspiration hazard:	No information

12. ECOLOGICAL INFORMATION

12.1	Toxicity:	No information
12.2	Persistence and Degradability:	No information
12.3	Bioaccumulative potential:	No information
12.4	Mobility in soil:	No information
12.5	Results of PBT- and vPvB-evaluation:	No information
12.6	Other adverse effects:	No information

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	See chapter 6.3 In compliance with administrative regulations.
	Disposal code of the product:	Not relevant
	Disposal code of contaminated packaging:	In compliance with administrative regulations. 150102 packaging disposal

14. TRANSPORT INFORMATION

Land transport

ADR class	Not restricted	ADR item number	Not relevant
RID class	Not restricted	RID item number	Not relevant
Hazard identification no.	Not relevant	Substance identification no.	Not relevant
TREM – Card	Not relevant	UN Number	Not relevant
Proper shipping name	Not relevant	National regulations	

Sea transport

IMO/IMDG code	Not restricted	Class	Not restricted
Packing group	Not relevant	UN number	None
EMS	Not relevant	MFAG	Not relevant
Marine pollutant	No	Proper shipping name	Not relevant

Air transport

ICAO-TI/IATA-DGR		UN number	None
Class	Not restricted	Packing group	Not relevant
Proper shipping name	Not relevant		



15. REGULATORY INFORMATION

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

H – 317 - Can cause allergic skin reaction.

H – 319 - Can cause eye irritation.

P – 234 - Keep in original packaging.

P – 280 - Wear protective gloves.

P – 301 - If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

P – 303 - In case of touch with skin wash the concerned part with water.

P – 305 - In case of touch with the eyes purge with water and consult a doctor.

P – 391 - Wipe up spilled material.

All the bacteria contained in this formulation are of group 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease.

When handling the product, precautions described in Annex VI of Directive 2000/54/EC have to be taken into consideration in order to make a risk assessment.

Without risks for health of animals, plants and environment.

Water hazard classification 1 (self-evaluation)

16. OTHER INFORMATION

The information is based on our current knowledge and are no assurance of features.

The recipients of our products have to consider current laws and determinations on own responsibility.

