

Safety Data Sheet 91/155/EEC

Product: **Bacillus subtilis FZB24[®] -WG**
Date: 17/08/2005

Version: 2

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Cancels and replaces version: 1

1 Product and company identification

PRODUCT NAME: **Bacillus subtilis FZB24[®] -WG**
SUPPLIER: Manufacturer:
Name: ABiTEP GmbH *
Address: GLIENICKER WEG 185
D – 12489 BERLIN
Telephone number: ++ 49 – 30 – 30369 500
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EMERGENCY TELEPHONE
NUMBER: ++ 49 – 172 9531 983
e-mail: info@abitep.de*

2 Composition/ information on ingredients

>> PREPARATION:

Chemical nature: Dry mixture of corn starch, skimmed milk powder and glycerol with freeze dried spores of non pathogenic microorganism *Bacillus subtilis FZB24[®]*, belonging to risk-group 1 (does not endanger)

3 Hazards identification

MOST IMPORTANT HAZARDS:

Adverse human health effects: No specific risk when handled in accordance with good occupational hygiene and safety practice. May cause allergic reactions.
Environmental effects: No long-term adverse effects to the aquatic, air or soil-borne environment.
Physical and chemical hazards.
- Fire or explosion: Stable substances not subject to hazardous polymerisation
Classification/Specific hazards: According to EEC criteria, this product is **NOT** classified as a „hazardous preparation“.

4 First-aid measures

Inhalation: May cause allergic reactions
Skin contact: Immediately rinse with water.
Eye contact: Rinse with water whilst keeping the eyes wide open.
Ingestion: Call a doctor who will decide whether a stomach wash-out is necessary.

5 Fire – fighting measures

Extinguishing media:
- Suitable: Water. Water spray. Foam. Carbon dioxide (CO₂).
Multi-purpose powders
- Not suitable: None
Specific hazards: In certain conditions starch/air mixtures are explosive.
Avoid any ignition source.

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6 Accidental release measures

Personal precautions:	In strong dusty condition use appropriate glasses, protective gloves and approved nuisance mask.
Environmental precautions:	Avoid direct discharge into food or feed. For a large spillage, contain the spillage by damming.
Methods for cleaning up:	
- Prohibited:	Do NOT spray water with high pressure into packaging which has been damaged or overturned.
- Recovery:	Recover the product by filling it into containers.
Cleaning/Decontamination:	Wash the floor with plenty of water.

7 Handling and storage

Technical measures:	Install a container.
Measures:	Avoid contamination's of the surrounding area.
Safe handling advice:	Comply with instructions for use.
STORAGE	
Technical measures:	The floor of the depot should be impermeable
Storage conditions:	
- Recommended:	Stable under normal storage conditions. Keep dry.
Incompatible product:	None.
Packaging:	Product should only be kept in the original packaging.
Packaging materials:	
- Recommended.	Paper bags or plastic containers.

8 Exposure controls / personal protection

Engineering measures:	No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.
Personal protective equipment:	
- Hand protection:	Prolonged and/or repeated handling: Impermeable protective gloves.
- Eye protection:	Prolonged and/or repeated handling: Safety glasses.
- Skin and body protection:	Prolonged and/or repeated handling: Protective clothing. No specific/particular action required for this product. Comply with general rules of occupational health and Safety.

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9 Physical and chemical properties

APPEARANCE:

- Physical state: crystallised powder.
- Colour: yellow to slightly brown.
- Odour: non till light specific.
- pH: 6.5 – 7.0

Specific temperatures:

- Melting: not determined
- Boiling: not applicable.

Flammability characteristics:

- Flash point: not determined.

Oxidising properties: Non determined.

Specific gravity: Aprox. 0.42 kg/dm³.

Solubility:

- in water: > 85 %.
 - in organic solvents: none.
-

10 Stability and reactivity

Stability: Stable under normal conditions of use.

Hazardous reactions:

- Materials to avoid: No dangerous reaction known with common products.
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11 Toxicological information

Acute toxicity: LD 50 oral (rat): > 25 ml (of 1,5% suspension)/kg (No effects).

Local effects: Repeated or prolonged contact may cause very slight Irritation to the skin. May cause slight temporary irritation to ocular mucous membranes.

12 Ecological information

Behaviour in the environment:

Destination of the product: Ultimate destination of the product: SOIL

Ecotoxicity:

- Effects on the aquatic environment: None (tested on Daphnia acc. To ECC 92/69, rainbow trout (*Oncorhynchus mykiss*))
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13 Disposal considerations

WASTE FROM RESIDUES:

Prohibition:

There is no danger releasing the product into the environment.

Destruction/Disposal:

Dispose residues in sewage drains.

CONTAMINATED PACKAGING:

Decontamination/cleaning:

Carefully drain and then clean.

Destruction/Disposal:

Incinerate the packaging at a licensed installation.

NOTE:

The user's attention is drawn to the possible existence of local regulations regarding disposal.

14 Transport information

INTERNATIONAL REGULATIONS:

Land:

- Rail/road (RID/ADR):

NOT restricted.

- Sea (IMO/IMDG):

NOT restricted.

Marine pollutant: NO.

- Air (ICAO-IATA):

NOT restricted.

NOTE:

The above regulatory prescriptions are those valid on the date of publication of this sheet.

Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with our commercial agency.

15 Regulatory information

LABELLING:

EEC regulations:

Mandatory labelling (self-classification) of hazardous preparations: Not applicable.

Further information:

This product is labelled accordance with current CESIO recommendations regarding toxicity and Ecotoxicity results.

NOTE:

Refer to all applicable national, international and local regulations or provisions.

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations.

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16 Other information

Uses:

- Recommended uses:

Plant growth stimulating agent for various applications.

Registration numbers:

The corresponding chemical substances are registered in the EINECS inventory. The bacteria's are registered in the German Collection of Microorganisms and Cells (DSMZ).

* Update:

This sheet was updated (refer to the date at the top of this page).

Subheadings and text which have been modified since the previous version are preceded with an asterisk (*).

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products.

This information is not exhaustive.

This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.

End of document.

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