

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

BIO-SPIRAL

Use of the substance/preparation

Bacteria medium for the food-processing industry

Company/undertaking identification

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Emergency telephone

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel. 02663-919157

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

To the environment

See point 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Symbol	R-phrases	EINECS, ELINCS
content %	Registration number (ECHA)	DNEL	PNEC
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4. FIRST AID MEASURES

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Remove person from danger area.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Consult doctor immediately - keep Data Sheet available.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.

5.2 Extinguishing media which shall not be used for safety reasons

n.c.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

5.4 Special protective equipment for fire-fighters

According to size of fire

Protective respirator with independent air supply.

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Avoid inhalation, and contact with eyes or skin.

Ensure sufficient supply of air.

6.2 Environmental precautions

Do not pour down the drain undiluted.

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods for cleaning up

Collect mechanically and dispose of according to point 13.

Avoid build up of dust.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

Observe directions on label and instructions for use.

General hygiene measures for the handling of chemicals are applicable.

7.2 Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Special storage conditions:

See point 10

Protect against moisture and store closed.

Store cool

Store in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Chemical Name	general dust limit	WEL-STEL:	Content %:
WEL-TWA: 10 mg/m3 (inhal. dust), 4 mg/m3 (respir. dust)		---	---
BMGV: ---		Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Respiratory protection:
 On dust formation:
 Dust breathing-mask necessary (EN 143).
 Hand protection:
 Protective hand cream recommended.
 With long-term contact:
 Rubber gloves (EN 374).
 Eye protection:
 With danger of contact with eyes.
 Protective goggles (EN 166)
 Skin protection:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
 Selection made for preparations according to the best available knowledge and information on the ingredients.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid, powder
Colour:	Light brown
Odour:	Mild, Characteristic
10 % pH-value:	n.av.
Boiling point/boiling range (°C):	n.av.
Melting point/melting range (°C):	n.av.
Flash point (°C):	n.a.
Flammability (solid, gas):	n.c.
Oxidising properties:	n.c.
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.c.
Density (g/ml):	n.c.
Bulk density:	n.c.
Water solubility:	partially
Vapour density (air = 1):	n.c.
VOC:	n.c.

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7
 Stable when handled and stored correctly.

Materials to avoid

See point 7
 Avoid contact with other chemicals.
 Deaktivierung bei Kontakt mit:
 Avoid contact with oxidizing agents.
 Avoid contact with strong acids.
 Avoid contact with strong alkalis.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal. (mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information

No classification according to calculation procedure.
 The following may occur:
 Irritation of the eyes
 Allergic reaction possible.
 Irritation of the skin.
 Irritation of the respiratory tract

12. ECOLOGICAL INFORMATION

Water hazard class (Germany):	Not hazardous to water.
Self classification:	
Yes (VwVwS)	
Persistence and degradability:	n.av.
Behaviour in sewage plants:	n.av.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

EC disposal code no.:
 The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

Recommendation:
 Pay attention to local and national official regulations
 E.g. suitable incineration plant.
 E.g. dispose at suitable refuse site.

13.2 for contaminated packing material

See point 13.1
 Pay attention to local and national official regulations
 Recommendation:
 15 01 02 plastic packaging
 15 01 01 paper and cardboard packaging

14. TRANSPORT INFORMATION

General statements

UN-Number:	n.a.
Road/Rail-transport (ADR/RID)	
Class/packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
Tunnel restriction code:	
Transport by sea	
IMDG-code:	n.a. (class/packing group)
Marine Pollutant:	n.a.
Transport by air	
IATA:	n.a. (class/secondary danger/packing group)

Additional information:
 Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols:	Not applicable
Indications of danger:	---
R-phrases:	

S-phrases:

Additions:	n.a.
Observe restrictions:	n.a.

16. OTHER INFORMATION

These details refer to the product as it is delivered.
 Storage class VCI (Germany): 10 - 13
 Revised points: 1 - 16 REACh
 Die Konformität dieses Produktes wurde gem. § 9 der Verordnung zur Umsetzung von EG-Richtlinien über den Schutz der Beschäftigten gegen Gefährdung durch biologische Arbeitsstoffe bei der Arbeit, von einem unabhängigen Institut, bestätigt.
 Sämtliche aufgeführten Bakterien sind der Risikogruppe 1 zuzuordnen, und eine toxische oder/und sensibilisierende Wirkung kann ausgeschlossen werden.
 Basis dieser Konformitätserklärung sind 5 Bakterienspezies, die keine pathogenen Mikroorganismen darstellen.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked
 WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-terme exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
 AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)
 VbF = Regulations for flammable liquids (Austria)
 WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water
 VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds
 VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
 No responsibility.

These statements were made by:
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