

Material Safety Data Sheet

Version 1.1

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: **BG-CO2-Powder**

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

Identified uses: Formulation of yeast strains and nutrients. Mix with water and sugar to generate carbon dioxide.

1.3 Details of the supplier of the safety data sheet

Company: Biogents AG
 Weissenburgstr. 22
 93055 Regensburg
 Germany

Telephone: +49 941 9458 330

Fax: +49 941 9458 3311

E-mail address: sds@biogents.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Label elements

Pictogram: None

Signal word: None

Hazard statement(s): None

Precautionary statement(s): None

Supplemental Hazard Statements: None

2.3 Other hazards

Environmental hazards: This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Other hazards

No particular hazards known.

SECTION 3: Composition/information on ingredients

The product is a mixture of different strains of dry yeast, yeast extract, and denatonium benzoate, a bitterant to inhibit ingestion.

Ingredients:

<i>Saccharomyces cerevisiae</i> (Dry Yeast)	CAS N° 68876-77-7 EC N° 232-387-9
<i>Saccharomyces cerevisiae</i> (Yeast Extract)	CAS N° 8013-01-2 EC N° 232-387-9
Denatonium benzoate	CAS N° 3734-33-6 EC N° 223-095-2 < 0.1 %

Other ingredients:

Urea, Salts, Minerals, Vitamins

SECTION 4: First aid measures**4.1 Description of first-aid measures****General advice**

Take off contaminated clothing and wash before reuse.

If inhaled

If breathed in, ensure supply of fresh air. In the event of symptoms seek medical advice.

In case of skin contact

When in contact with skin, clean with soap and plenty of water. If skin irritation persists seek medical advice.

In case of eye contact

Rinse thoroughly with plenty of water. In the event of symptoms seek medical advice.

If swallowed

Rinse out mouth and give sips of water to drink. In the event of persisting symptoms (for example irritation, discomfort, vomiting, etc.) seek medical advice.

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

If seeking medical advice, provide this SDS.

SECTION 5: Firefighting measures**5.1 Extinguishing media Suitable extinguishing media**

All extinguishing media are suitable, but method must take into account the surrounding area to minimize dispersion.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxide (NOx)

Ammonia (NH₃)

5.3 Advice for firefighters

Do not inhale combustion gases. Use self-containment breathing apparatus if necessary.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulation.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into drains/surface water/groundwater.

6.3 Methods and materials for containment and cleaning up

Take up mechanically. Can be disposed of in landfill.

Wet cleaning can be used to remove dust, with liquid waste to sewer.

6.4 Reference to other sections

See section 8+13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special measures necessary if used correctly.

If irritation or other symptoms are experienced, wear general purpose dust mask when handling

Wash hands before breaks and after work.

Take off contaminated clothing and wash before reuse.

Do not eat or drink when working.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original packaging or in a clean, closed container.

Store in a cool and dry place.

7.3 Specific end use(s)

See product use, Section 1.2

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Ingredients with workplace control parameters**

Not applicable.

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation on workstation.

Personal protective equipment**Eye/face protection**

Not required under normal conditions.

Hand protection

Not required under normal conditions.

Skin protection

Not required under normal conditions.

Avoid contact with eyes and skin.

Respiratory protection

Not required under normal conditions. If irritation or other symptoms are experienced, wear general purpose dust mask when handling

Thermal hazards.

Not applicable.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- | | | |
|----|------------|---|
| a) | Appearance | Form: fine to granular powder
Colour: tan to beige |
| b) | Odor | yeasty |

c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Not applicable
f)	Initial boiling point and boiling range	Not applicable
g)	Flash point	No data available
h)	Evaporation rate	Not applicable
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	Not applicable
l)	Vapor density	Not applicable
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	Not applicable
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	Not applicable
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under recommended storage conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents, strong acids and alkalis.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

See section 10.3

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Based on the available data, the classification criteria are not met.

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

Serious eye damage/eye irritation

Based on the available data, the classification criteria are not met.

Respiratory or skin sensitization

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity

Does not contain any relevant substances fulfilling the classification criteria.

Carcinogenicity

Does not contain any relevant substances fulfilling the classification criteria.

Reproductive toxicity

Does not contain any relevant substances fulfilling the classification criteria.

Specific target organ toxicity - single exposure

Based on the available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

Additional Information

Toxicological data of complete product are not available.

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No data available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Coordinate disposal with the authorities if necessary.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADR/RID: not applicable

Inland navigation (ADN): not applicable

IMDG: not applicable

IATA: not applicable

14.2 UN proper shipping name

ADR/RID: No dangerous goods

Inland navigation (ADN): No dangerous goods

IMDG: Not classified as "DANGEROUS GOODS"

IATA: Not classified as "DANGEROUS GOODS"

14.3 Transport hazard class(es)

ADR/RID: not applicable

Inland navigation (ADN): not applicable

IMDG: not applicable

IATA: not applicable

14.4 Packaging group

ADR/RID: not applicable

Inland navigation (ADN): not applicable

IMDG: not applicable

IATA: not applicable

14.5 Environmental hazards

ADR/RID: no

Inland navigation (ADN): no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

Relevant information under section 6 to 8.

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

15.2 Chemical Safety Assessment

For this product, a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Biogents shall not be held liable for any damage resulting from handling or from contact with the above product.