

**SECTION 1. Identification of the substance/mixture and of the company/enterprise**

**1.1. Product identifier**

Product name : BENTOGRAN  
Product code: refer to sales department  
Chemical Name: BENTONITE CAS: 1302-78-9 - EC No: 215-108-5

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

Clarifying Agents  
Sectors of use:  
Industrial Manufacturing[SU3], Manufacture of food products[SU4], Public domain (administration, education, entertainment, services, craftsmen)[SU22]  
Product category:  
Process aid for food-limited use

Not recommended uses  
Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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#### **1.4. Emergency telephone number**

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

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AEB BIOCHEMICAL USA

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AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

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## **SECTION 2. Hazards identification**

### **2.1. Classification of the substance or mixture**

CAS 1302-78-9 EINECS 215-108-5

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

### **2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

Contains:

Information concerning the components: activated bentonite.

Only for professional use. Food use. Also for oenological use. In accordance with current regulations on the specific matter.

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### 2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

No dangerous substance to report.

| Substance  | Concentration | Classification | Index | CAS       | EINECS    | REACH |
|--|---------------|----------------|-------|-----------|-----------|-------|
| BENTONITE<br>substance for which there are<br>Community workplace exposure<br>limits | 100%          |                |       | 1302-78-9 | 215-108-5 |       |

### 3.2 Mixtures

Irrilevant

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5. Firefighting measures

### **5.1. Extinguishing media**

Suggested extinguishing media:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

### **5.2. Special hazards arising from the substance or mixture**

No data available.

### **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## **SECTION 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

### **6.2. Environmental precautions**

Contain spills

Inform the competent authorities.

Dispose of the waste material in compliance with the regulations

### **6.3. Methods and material for containment and cleaning up**

6.3.1 Containment:

Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

**6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

**SECTION 7. Handling and storage**

**7.1. Precautions for safe handling**

At work do not eat or drink.  
See also paragraph 8 below.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container closed tightly. Do not store in open or unlabelled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

**7.3. Specific end use(s)**

Industrial Manufacturing:  
Handle with extreme caution.  
Store in a well ventilated place away from heat sources.

Manufacture of food products:  
Handle with care.  
Store in a clean, dry, ventilated area away from heat and direct sunlight.  
Keep container tightly closed.

Public domain (administration, education, entertainment, services, craftsmen):  
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

=====  
Related to contained substances:  
BENTONITE:

|                            | Limit value - Eight hours |                   | Limit value - Short term |                   |
|----------------------------|---------------------------|-------------------|--------------------------|-------------------|
|                            | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| People's Republic of China |                           | 6 (1)             |                          |                   |

Remarks  
People's Republic of China (1) Inhalable fraction

**8.2. Exposure controls**



Appropriate engineering controls:  
Industrial Manufacturing:  
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:  
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use protective rubber or latex gloves, or other protective equipment, according to the instructions of the RSPP

(ii) Other

When handling the pure product, wear full protective clothing (generic workwear), or other protective equipment, according to the instructions of the RSPP

(c) Respiratory protection

Not needed for normal use.

During manual operations in case of insufficient ventilation, use mask with dust filter - White, P (EN 143) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

| Physical and chemical properties             | Value   | Determination method |
|--|---|----------------------|
| Appearance                                   | Beige granular powder   |                      |
| Odour  | odorless  |                      |
| Odour threshold                              | not determined as considered not relevant for the characterization of the product |                      |
| pH   | not determined as considered not relevant for the characterization of the product |                      |
| Melting point/freezing point                 | not determined as considered not relevant for the characterization of the product |                      |
| Initial boiling point and boiling range      | not determined as considered not relevant for the characterization of the product |                      |
| Flash point                                  | not determined as considered not relevant for the characterization of the product | ASTM D92             |
| Evaporation rate                             | not determined as considered not relevant for the characterization of the product |                      |
| Flammability (solid, gas)                    | not determined as considered not relevant for the characterization of the product |                      |
| Upper/lower flammability or explosive limits | not determined as considered not relevant for the characterization of the product |                      |
| Vapour pressure                              | not determined as considered not relevant for the characterization of the product |                      |

| <b>Physical and chemical properties</b> | <b>Value</b>  | <b>Determination method</b> |
|---|---|-----------------------------|
| Vapour density                          | not determined as considered not relevant for the characterization of the product |                             |
| Relative density                        | 0.9 - 1.0   |                             |
| Solubility                              | not determined as considered not relevant for the characterization of the product |                             |
| Water solubility                        | not determined as considered not relevant for the characterization of the product |                             |
| Partition coefficient: n-octanol/water  | not determined as considered not relevant for the characterization of the product |                             |
| Auto-ignition temperature               | not determined as considered not relevant for the characterization of the product |                             |
| Decomposition temperature               | not determined as considered not relevant for the characterization of the product |                             |
| Viscosity                               | not determined as considered not relevant for the characterization of the product |                             |
| Explosive properties                    | not determined as considered not relevant for the characterization of the product |                             |
| Oxidising properties                    | not determined as considered not relevant for the characterization of the product |                             |

## 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Nothing to report

### 10.5. Incompatible materials

no particular incompatibility

**10.6. Hazardous decomposition products**

no dangerous decomposition products.

**SECTION 11. Toxicological information**

**11.1. Information on toxicological effects**

ATE oral = ∞  
ATE dermal = ∞  
ATE inhal = ∞

(a) acute toxicity: BENTONITE: Ingestion-rat LD50 (mg/kg/bw 24h): n.a.

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): n.a.

Inhalation-rat LD50 (mg/l/4h): n.a.

(b) skin corrosion/irritation BENTONITE: Non-corrosive  
BENTONITE: Non-irritating

(c) serious eye damage/irritation: BENTONITE: Non-corrosive  
BENTONITE: Moderately irritating

(d) respiratory or skin sensitization: BENTONITE: Non-sensitizing

(e) germ cell mutagenicity: BENTONITE: Not available

(f) carcinogenicity: BENTONITE: Not available

(g) reproductive toxicity: BENTONITE: Not available

(h) specific target organ toxicity (STOT) single exposure: BENTONITE: Not available

(i) specific target organ toxicity (STOT) repeated exposure BENTONITE: Not available

(j) aspiration hazard: BENTONITE: Not available

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

**SECTION 12. Ecological information**

**12.1. Toxicity**

=====  
Related to contained substances:  
BENTONITE:

Acute toxicity-fish LC50 (mg/l/96h): n.a.

Acute toxicity-crustacea EC50 (mg/l/48 h): n.a.

Acute algae toxicity ErC50 (mg/l/72-96h): n.a.

Use according to good working practices and avoid to disperse the product into the environment.



**12.2. Persistence and degradability**

Not persistent

**12.3. Bioaccumulative potential**

Not bioaccumulative

**12.4. Mobility in soil**

Not available

**12.5. Results of PBT and vPvB assessment**

Not classified as PBT and vPvB

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

**12.6. Other adverse effects**

No adverse effects

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

**SECTION 14. Transport information**

**14.1. UN number**

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

**14.2. UN proper shipping name**

None

**14.3. Transport hazard class(es)**

None

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#### **14.4. Packing group**

None

#### **14.5. Environmental hazards**

None

#### **14.6. Special precautions for user**

No data available.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

Transport in bulk is not foreseen

### **SECTION 15. Regulatory information**

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC  
Reg. EC 648/04: see 2.2  
Reg. (EU) n. 1169/2011: see 2.2

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

### **SECTION 16. Other information**

#### **16.1. Other information**

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Procedure used to classify under CLP mixture (Reg. EC 1272/2008): irrelevant

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati  
BFC: BioconCentration Factor  
BOD: Biochemical Oxigen Demand  
CAS: Chemical Abstract Service number  
CAP: Centre AntiPoison  
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)  
CL50/LC50: Lethal Concentration 50  
DL50/LD50: Lethal Dose 50  
COD: Chemical Oxygen Demand  
DNEL: Derived No Effect Level  
EC50: half maximal Effective Concentration  
ERC: Enviroment Release Classes  
EU/UE: European Union  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods code  
Kow: Octanol water partition coefficient  
NOEC: No Observed Effect Concentration  
OEL: Occupational Exposure Limit  
PBT: Persistent Bioaccumulative and Toxic  
PC: Product Categories  
PNEC: Predicted No Effect Concentration  
PROC: Process Categories  
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)  
STOT: Target Organ Systemic Toxicity  
STOT (RE): Repeated Exposure  
STOT (SE): Single Exposure  
STP: Sewage Treatment Plants  
SU: Sector of Use  
SVCH: Substance of Very High Concern  
TLV: Threshold Limit Value  
vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
- <https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

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\*\*\* this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: labeling variation.