

MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#1/12

In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product name: MAJORBENTON UF 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:
Manufacture of food products[SU4]
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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MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#2/12

In conformity to Regulation (EU) 2015/830

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)

AEB BIOCHEMICAL USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

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

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

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: bentonite.

Only for professional use. Food use. In accordance with current regulations on the specific matters.



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#3/12

In conformity to Regulation (EU) 2015/830

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 substance for which there are Community workplace exposure 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 thorougly 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

MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#4/12

In conformity to Regulation (EU) 2015/830

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO2, 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.

Privide 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



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#5/12

In conformity to Regulation (EU) 2015/830

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)

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.

Keep container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

10/5

Related to contained substances:

bentonite:

Austria

Occupational Exposure Limits in mg/m3 8 hours TWA - Respirable dust - in EU 27 + Norway & Switzerland*

(inert)dust INHALABLE / (inert)dust RESPIRABLE

Belgium Bulgaria Cyprus Czech Republic Denmark Estonia Finland France Germany Greece Hungary Ireland	10/3 x/4 x/x x/x 10/5 x/x 10/x 10/5 10/0.5 10/0.5 10/4
Italy	10/3
Lithuania	x/10
Luxembourg	10/6
Malta	x/x
Netherland	10/5
Norway	10/5
Polond	2/0.3
Portugal	10/5
Romania	x/10
Slovakia	10/x
Slovenia	x/x
Spain	10/
Sweden	x/5
Switzerland	x/6
UK	10/4
	10/1



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#6/12

In conformity to Regulation (EU) 2015/830

8.2. Exposure controls









Appropriate engineering controls:

Manufacture of food products:

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 employer

(ii) Other

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

(c) Respiratory protection

Not needed for normal use.

During manual operations in the event of insufficient ventilation, use a mask (UNI EN 149) with an FFP dust filter commensurate with the environmental hygienic conditions, unless otherwise specified by the employer.

(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 fine powder		
Odour	not determined as it is considered not relevant for the characterization of the product		
Odour threshold	not determined as it is considered not relevant for the characterization of the product		
рН	not determined as it is considered not relevant for the characterization of the product		
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product		



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#7/12

In conformity to Regulation (EU) 2015/830

Physical and chemical properties	Value	Determination method
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	0.45 ± 0.05 (20 ° C)	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	not determined as it is considered not relevant for the characterization of the product	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
Viscosity	not determined as it is considered not relevant for the characterization of the product	
Explosive properties	not determined as it is considered not relevant for the characterization of the product	
Oxidising properties	not determined as it is considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Inert

10.2. Chemical stability

Stable under normal conditions of use and storage

10.3. Possibility of hazardous reactions

No dangerous reaction



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#8/12

In conformity to Regulation (EU) 2015/830

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

No one in particular

10.6. Hazardous decomposition products

No hazardous decomposition products

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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

(a) acute toxicity: bentonite: Ingestion - LD50 rat (mg / kg / 24h bw):> 2000

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / I / 4h):> 5.27

(b) skin corrosion/irritationbentonite: Not classified

bentonite: Not irritating

(c) serious eye damage/irritation: bentonite: Not classified

bentonite: Not irritating

- (d) respiratory or skin sensitization: bentonite: Not classified
- (e) germ cell mutagenicity: bentonite: Negative test (OECD 471, 473, and 476)
- (f) carcinogenicity: bentonite: Not classified
- (g) reproductive toxicity: bentonite: Two developmental studies are available: Abdel-Wahhab et al (1999): bentonite had no effect on maternal and fetal parameters at a dietary level of 0.5% w / w (equivalent to 250 mg / kg body weight). Wiles et al (2004): 2% calcium montmorillonite or sodium montmorillonite in the diet had no effect on maternal weight or weight of maternal organs, weight of waste, embryonic implants or reabsorption. In both studies animals are not effects on maternal / fetal parameters have been detected. The classification for reproductive toxicity based on Regulation (EC) 1272/2008 is not guaranteed.
 - (h) specific target organ toxicity (STOT) single exposure: bentonite: No toxicity observed in acute tests.
- (i) specific target organ toxicity (STOT) repeated exposurebentonite: STOT Repeated exposure Oral Short-term repeated dose (28 days) toxicity and sub-chronic toxicity (90 days) studies have been conducted on bentonite mice. Bentonite administered to mice at 10%, 25% or 50% for 61 days. The hepatoma was observed in mice treated with a 50% bentonite diet. This was due to the fact that the bentonite was a silicate with base exchange and therefore removed the choline from the contents of the intestine> Study of feeding for 200 days of 50% of bentonite. Hepatomas developed in 11 of 12 mice. The livers of mice with a basal 50/50 bentonite diet were severely damaged. The liver damage observed in the group that ingests bentonite is consistent with that expected during a prolonged deficiency of choline, a basic exchange silicate, is advanced as a partial explanation for the development of hepatomas in mice in these experiments. Effect observed on livers. However, studies have been conducted s
 - (j) aspiration hazard: bentonite: No risk of expected aspiration.

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.



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

#9/12

In conformity to Regulation (EU) 2015/830

SECTION 12. Ecological information

12.1. Toxicity

MAJORBENTON UF: C(E)L50 (mg/l) = 16000

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

12.2. Persistence and degradability

Not applicable

12.3. Bioaccumulative potential

Not applicable

12.4. Mobility in soil

Bentonite is almost insoluble and therefore has poor mobility in most soils.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or 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 other adverse effects were identified. According to the criteria of the European classification and labeling system, the substance does not require classification as dangerous for the environment.

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

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SAFETY DATA SHEET

MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

10 / 12

In conformity to Regulation (EU) 2015/830

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

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

Chemical safety assessment was carried out by the supplier

SECTION 16. Other information

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SAFETY DATA SHEET

MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

11 / 12

In conformity to Regulation (EU) 2015/830

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): irrilevant

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 europèen relative au transport International des merchandises dangereuses par route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat
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: Environment 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 concernent le transport International ferroviaire des merchandises 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



MAJORBENTON UF

Issued on 10/31/2019 - Rel. # 2 on 10/31/2019

12 / 12

In conformity to Regulation (EU) 2015/830

- 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: variation on basic physical and chemical properties.