



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(REACH) and Commission Regulation (EU)
No. 2020/878 BENTONIT

Revision: E
Release date: 06/05/2010
Revision date: 07/08/2021

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

1.1 Product identifier

Chemical / trade name: **BENTONITE**
Distributor: **Ekokoza s.r.o**
Address: **Fryčovice 297, 73945, Fryčovice**
ID: 07508247, eshop@ekokoza.cz

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

Intended uses: Winery, cosmetic industry
Not recommended uses: Not listed.

1.3 Detailed data on the supplier of the safety data sheet

Trade name: **Ekokoza s.r.o**
Punch: **Fryčovice 297, 73945, Fryčovice**
Identification number: **ID: 07508247, eshop@ekokoza.cz**
Phone:
www:
BL processor:

1.4 Telephone number for emergency situations

Toxicology Information Centre, Na Bojišti 1, 120 00 Prague 2. Emergency telephone: +420 224 91 92 93 or +420 224 91 54 02, www.tis-cz.cz

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP):
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008 (CLP).

2.2 Marking elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP):
Warning symbol: Not classified.
Signal word: Not classified.
Contains: Bentonite
H-phrases: Not classified.
P-instructions: Not classified.
Additional information: They are not.

2.3 Other hazards

This mixture does not contain any substances that are assessed as PBT or vPvB.
This product does not contain SVHC substance.
This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.



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SECTION 3: Composition / information on ingredients

3.1 Substances

Folder name	Content (wt%)	TIME EINECS Index N° Reg. number	Classification according to regulation (EC) no. 1272/2008 (CLP)
Bentonite	100	1302-78-9 215-108-5	Not classified.

Full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1 Description of first aid

General instructions:	In case of accident or if you feel unwell, seek medical attention immediately (show this SDS or the label if possible).
When inhaling:	Move the victim to fresh air, keep him calm, prevent hypothermia.
In case of skin contact:	Remove the stained clothing, wash the affected area thoroughly with soap and water, treat with a suitable cream.
In case of eye contact:	Immediately rinse the eyes with a stream of running water, open the eyelids. If contact lenses are worn, carefully remove them and continue rinsing, the affected eye wide open from the inner corner to the outer, so as not to affect the other eye and also under the lids for min. 15 minutes. If difficulties persist, seek professional medical help.
If ingested:	Rinse mouth with water, do not induce vomiting. Do not give anything by mouth to an unconscious person; put the person in a stable position and call for medical help immediately.
Protection of first responders:	Pay attention to personal safety during rescue operations.

4.2 Most important symptoms and effects, both acute and delayed

If first aid procedures are effectively applied, no acute or delayed symptoms or effects are expected.

4.3 Indication of immediate medical attention and special treatment

It is generally recommended for ingestion.

SECTION 5: Firefighting measures

5.1 Fire extinguishers

Suitable extinguishing agents:	Foam, extinguishing powder, CO ₂ , water mist.
Unsuitable extinguishing agents:	Direct stream of water - fire could spread.

5.2 Special hazards arising from the substance or mixture

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide. Remove closed containers as far as possible from the fire and cool them with water mist.

5.3 Instructions for firefighters

Emergency responders exposed to smoke or vapors must be equipped with respiratory and eye protection, protective clothing. When working in closed spaces, it is necessary to use a self-contained breathing apparatus. Cool containers exposed to fire with water mist. Do not spray water directly into the container to avoid excessive foaming. Collect extinguishing water separately and prevent it from entering water and soil.



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SECTION 6: Accidental release measures

6.1 Personal protection measures, protective equipment and emergency procedures

Avoid contamination of clothing and footwear with the product and contact with skin and eyes. Use suitable protective clothing, change soiled clothing. Ensure ventilation of the affected area. All persons not involved in rescue work should be sent to a safe distance.

6.2 Environmental protection measures

Prevent leakage into the environment, soil, prevent entry into surface water and sewage. In the event of a leak, immediately inform the watercourse / sewer manager and the relevant authorities.

6.3 Methods and material for containment and cleaning up

In the event of a leak, locate and, if possible, pump out the product or mechanically remove it, remove it from the surface of the water. Allow residues or smaller amounts to soak into a suitable sorbent (diatomaceous earth, sand) and place in suitable marked containers and hand over for recycling / disposal in accordance with applicable regulations.

6.4 Reference to Other Sections

See dept. 7, 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use appropriate PPE. Use only in well-ventilated areas with a guaranteed supply of fresh air. Do not eat, drink or smoke while working. Wash your hands after finishing work. Do not inhale fumes. Comply with legal regulations on occupational health and safety. All fire precautions must be observed during handling.

7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Store in well-closed containers in a dry, cool and well-ventilated place.
Protect from sunlight and other heat sources.

7.3 Specific end / specific end uses

see section 1.2

SECTION 8: Exposure controls / personal protective equipment

8.1 Control parameters

Exposure limits:

Government Regulation No. 361/2007 Coll., which establishes the conditions for health protection at work, as amended, establishes the following maximum permissible concentrations (NPK-P) and permissible exposure limits (PEL) of chemical substances in the workplace air:

Substance	TIME	PEL (mg/m ³)	NPK-P (mg/m ³)	Note
Bentonite	1302-78-5	6		

Substances for which a Union exposure limit is set:

Substance	TIME	Limit values (mg/m ³)		Note
		OEL	STEL	
No data available.				



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DAYS:

Exposed group and route of exposure	Duration of exposure	Effect type	Unit	Value
No data available.				

PNEC:

Environmental component	PNEC	Unit	Value
No data available.			

DNEL and PNEC values for the other components of the mixture have not been determined.

8.2 Limiting Exposure

Technical measures:

Engineering measures and appropriate work procedures take precedence over personal protective equipment. Observe normal hygiene principles. Do not eat, drink or smoke while working. Wash your hands with warm water and soap before a work break and after work.

Individual protective measures

Respiratory protection:

In case of exceeding the exposure limits, or when creating fog/dust/vapour/aerosol, use a mask with an A/P filter, according to ħSN EN 14387+A1.

Hand protection:

Protective work gloves resistant to chemicals according to ħSN EN 374. In any case, protective gloves should be tested for the specific suitability of their use at the given workplace (e.g. for their mechanical resistance, compatibility with the product and antistatic properties). Follow the exact instructions from the manufacturer, including the time of use.
Replace damaged gloves.

Eye and face protection:

Use safety glasses with side labels or a face shield, according to ħSN EN 166.

Skin protection:

Work clothes (ħSN EN ISO13688) and footwear (ħSN EN ISO 20347).

Thermal hazards:

No data available.

Limiting environmental exposure:

Prevent unnecessary leaks into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	solid (powder)
Color:	Beige
Odor:	Odorless
Odor Threshold:	No data available
pH :	No data available
Melting point/freezing point (°C):	1000 - 1250
Boiling point or initial boiling point and boiling point range (°C):	No data available.
Flash point (°C):	No data available.
Evaporation rate:	No data available.
Flammability (solids, gases, liquids):	No data available.
Lower and upper explosive limits:	No data available.
Vapor pressure (20°C):	No data available.
Vapor pressure (50°C):	No data available.
Relative vapor density:	No data available.



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Density and/or relative density (kg/m ³ , 20°C):	0.9-1.0
Solubility (20°C):	Negligible No
Partition coefficient n-octanol/water (log value):	data available.
Auto-ignition	
temperature (°C): Decomposition	No data available. No
temperature (°C): Kinematic	data available. No data
viscosity: Refractive index	available. No data
(20°C):	available. No data
Oxidizing properties:	available.
Explosive properties:	Non-
Particle characteristics:	explosive. No data available.

9.2 Additional information

VOC content (%):	No data available. No
Dry matter	data available.
content: Additional information:	They are not.

9.2.1 Information regarding physical hazard classes

The product is not physically dangerous.

9.2.2 Other safety characteristics:

Mechanical sensitivity:	No data available. No
Self-accelerating polymerization temperature:	data available.
Creation of explosive dust-air mixtures:	No data available.
Acid/alkaline reserve:	No data available. No
Evaporation rate:	data available. No data
Miscibility:	available. No data
Conductivity:	available. No data
Corrosivity:	available. No data
Gas class:	available. No data
Oxidation-reduction potential:	available. No data
Radical formation potential:	available. No data
Photocatalytic properties:	available.

SECTION 10: Stability and reactivity

10.1 Reactivity	It is stable under normal storage and use.
10.2 Chemical stability	It is stable under normal storage and use.
10.3 Possibility of hazardous reactions	Under normal conditions, there is no likelihood of dangerous reactions.
10.4 Conditions to avoid	They are not.
10.5 Incompatible materials	They are not.
10.6 Hazardous decomposition products	They are not.



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SECTION 11: Toxicological information

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008

Acute toxicity:	The product does not meet the criteria for classification. oral, LD50, \approx 2300 mg/kg, rat inhalation, LC50, \approx 5.27 mg.l-1), rat
Serious eye damage/irritation:	Accidental eye contact may cause irritation. The product does not meet the criteria for classification.
Skin corrosion/irritation:	The product is not irritating. Prolonged or repeated contact may injure and irritate the skin. The product does not meet the criteria for classification.
Respiratory/Skin Sensitization:	Long-term exposure may cause respiratory irritation. The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Inhalation hazard:	The product does not meet the criteria for classification.

11.2 Information on additional hazards Endocrine-disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Additional information: No data available.

SECTION 12: Ecological information

12.1 Toxicity

The product does not meet the criteria for classification.

Toxicity	Test organism	Result	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i>	16,000 mg/L, LC50 / 96 h	
Acute toxicity to invertebrates	<i>Daphnia magna</i>	No data available.	
Acute toxicity to algae	<i>Scenedesmus quadricauda</i>	No data available.	

12.2 Persistence and Deployability

It is not decomposable.

12.3 Bioaccumulative potential

It is not bioaccumulative.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed as PBT or vPvB.

12.6 Properties causing disruption of the endocrine system

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other Adverse Effects

No data available.



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SECTION 13: Disposal considerations

13.1 Waste management methods

Waste catalog number of the substance/mixture:	No data available.
Packaging catalog number:	No data available.
Recommended waste disposal procedure for the substance/mixture:	Collect the remains of the mixture in marked containers and hand them over to a person authorized to handle hazardous waste for disposal. Suitable method of disposal: incineration in a hazardous waste incinerator. If possible, regenerate the product.
Recommended procedure for disposal of waste packaging contaminated with substance / mixture:	Empty packaging must be disposed of by the waste generator in accordance with applicable waste legislation. After thorough cleaning, the packaging can be used as a secondary raw material for the same purpose. The recommended method of disposal is recycling, burning in a hazardous waste incinerator or depositing hazardous waste in a landfill.
Physical/chemical properties that may affect waste management:	No data available.
Prevention of disposal of wastes through sewers:	No data available.
Special precautions for waste management:	Dispose in accordance with applicable legislation.

SECTION 14: Transport information

	Transport type	Land transport ADR/RID	Sea transport IMDG	Air transport ICAO / IATA
14.1	UN number or ID number	Not applicable.		
14.2	Official (UN) shipping name	It is not a dangerous item in terms of transport.	It is not a dangerous item in terms of transport.	It is not a dangerous item in terms of transport.
14.3	Transport hazard class/classes	Not applicable.		
	Identification number danger	Not applicable.	-	-
	Safety signs	Not applicable.		
14.4	Packaging group	Not applicable.		

14.5 Environmental hazard Not applicable.

14.6 Special security measures for users Not applicable.

14.7 Maritime bulk transport according to IMO instruments Not applicable.

Additional information

Transport type	Land transport ADR/RID Not	Sea transport IMDG	Air transport ICAO / IATA
Limited quantity:	applicable.		
Excluded quantity:	Not applicable.		
Transport category:	Not applicable.	-	-
Restriction code for tunnels:	Not applicable.	-	-
Segregation group:	Not applicable.		-



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15.1 Regulations relating to safety, health and the environment / specific legal regulations relating to a substance or mixture, all as amended and including implementing regulations Act No.

350/2011 Coll., on chemical substances...

Act No. 258/2000 Coll., on the protection of public health...

Act No. 185/2001 Coll., on waste...

Act No. 201/2012 Coll., on air...

Act No. 254/2001 Coll., on waters...

Act No. 477/2001 Coll., on packaging...

Act No. 111/1994 Coll., on road transport Act No.

224/2015 Coll., on the prevention of serious accidents...

NV No. 361/2007 Coll., Health protection conditions at work...

Decree No. 432/2003 Coll., which establishes the conditions for classifying works into categories...

Regulation (EC) No. 1272/2008 (CLP) on classification, labeling and packaging of substances and mixtures,...

Regulation (EC) No. 1907/2006 (REACH) on the Registration, Evaluation, Authorization and Restriction of Chemicals....

Regulation of the European Parliament and Council (EC) No. 648/2004 on detergents

Regulation (EC) No. 528/2012 on biocides

Regulation (EC) No. 2003/2003 on fertilizers

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Further information

Full text of all classifications and hazard classes listed in Section 3:

They are not.

Abbreviations:

ADN	Inland waterways European
ADR	Agreement on the International Carriage of Dangerous Goods by Road Chemical
TIME	Abstracts Service Derived no-
TODAY	effect level Effect concentration for 50%
EC50	
EINECS	European Inventory of Existing Commercial Chemical Substances Effective
EL50	level for 50% (effect level for 50%)
IATA	International Air Transport Association Inhibition
IC50	concentration for 50%
ICAO	Technical instructions for the safe air transport of dangerous goods Inhibition load for
IL 50	50% (inhibition load for 50%)
IMDG	International regulation on the carriage of dangerous goods by sea Lethal
LC50	concentration for 50% (lethal concentration for 50%)
LD50	Lethal dose for 50% of individuals (lethal dose for 50%)
LL50	Lethal load for 50% (lethal load for 50%)
LOAEC	Lowest observable adverse effect concentration
LOAEL	Lowest observable adverse effect level
LOEC	Lowest observable effect concentration
LOL	Lowest observable effect level
NO	Exposure without effect (no effect level) No
NOAEC	observable adverse effect concentration (no observable adverse effect concentration) No observable adverse effect
NOAEL	level (no observable adverse effect level) No observable effect concentration (no observable effect
NOEC	concentration) No observable effect level)
CHRISTMAS	
NPK-P	The highest permissible concentration at the
OEL	workplace Occupational Exposure Limit (exposure limit at the workplace - 8 hours/shift)
PBT	Persistent, bioaccumulative, toxic
PEL	Permissible exposure limit
PNEC	Predicted no-effect concentration



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RID	Order for the International Rail Transport of Dangerous Goods
SCL	Specific concentration limits
STEL	Short Term Exposure Limit (short-term exposure - corresponds to approx. 15 min.)
TT	Toxic threshold
VOCs	Volatile organic substances
vPvB	Highly persistent and highly bioaccumulative
WGK	Water hazard classes (Wassergefährdungsklassen)

Changes against the previous version of BL:

This revision follows version "D" from 17/02/2017 and is in accordance with Regulation (EC) No. 1272/2008 (CLP).

The following materials were used for the revision of the safety data sheet: MSDS of the supplier, CASEC program.

The classification was carried out by a computational method.

Training Guidelines:

Workers who come into contact with dangerous substances must be familiarized with the effects of these substances, the methods of handling them, and protective measures to the extent necessary.

Furthermore, they must be familiar with the principles of first aid, with the necessary sanitation procedures and with the procedures for liquidating malfunctions and accidents.

The person who handles this chemical product must be familiar with the safety rules and information given in the safety data sheet.

If the hazardous chemical substance/mixture is classified as corrosive or toxic, workers must be familiar with the Rules for Handling Corrosive/Toxic Chemical Substance/Mixture.

Persons transporting dangerous substances must be familiar with the instructions in the event of an accident in accordance with ADR/RID regulations.

Additional information:

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer, serves as instructions for the training of persons handling the product.

The manufacturer bears a guarantee for the above-described properties of the product in the recommended way of use.

The user is responsible for determining the suitability of the product for specific purposes and adapting safety measures if this use is contrary to the manufacturer's recommendations.