

MADUR® 216 BLEACHING EARTH

Version: 1.0
Form No: 820001

Prep Date: 12/9/2022
Rev. Date: 12/9/2022

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

1.1 Product Identifier

Name of Product	MADUR® 216 Bleaching Earth
SDS ¹ Form No	820001
Chemical Name	Bentonite
CAS ² No	1302-78-9
EC ³ No	215-108-5

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	Bentonite, acid-leached has a variety of uses. Adsorbing medium for technical applications
Uses Advised Against	There are no uses advised against.

1.3 Details Of The Supplier The Safety Data Sheet

Manufacturer/ Supplier	NB GLOBAL MADENCİLİK VE KİMYA SANAYİ TİCARET ANONİM ŞİRKETİ
Address	75. YIL OSB MAH. 2002 CAD. NO: 17 ODUNPAZARI/ ESKİŞEHİR/TURKEY
Telephone	+90 533 611 83 65
E-mail Address of Competent Person Responsible for the SDS	Dr. Hasan Cebi info@nb-global.com.tr

1.4 Emergency Telephone Number

Company Emergency	+90 533 611 83 65
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2. HAZARDS IDENTIFICATION

2.1 Classification Of The Product

2.1.1 Classification According to Regulation (EC) No 1272/2008

- This substance is not classified as hazardous according to regulation (EC) 1272/2008 [CLP/GHS].

2.2 Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP⁴/GHS⁵]

Product Identifier	
Hazard Component for Labeling	
· Not applicable	
Hazard Pictograms	
· Not applicable	
Signal Word	
· Not applicable	



Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH),
(EC) No. 1272/2008 (CLP)

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Hazard Statements
Not applicable
Precautionary Statements
General
-
Prevention
-
Response
-
Storage
-
Disposal
-
Supplemental Hazard Information (EU) Statements
No data available.
2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures
None.
2.2.3. Additional Labeling
Not Applicable
2.3 Other Hazards
Substance meets the criteria for PBT/ vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: None
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description Of The Substances

CAS ⁶ No	EC ⁷ No	Name	Classification according to Regulation (EC) No 1278/2008 (CLP)
1302-78-9	215-108-5	Bentonite	Not classified as hazardous substance

The product contains small amount of Alveolar Dust** (DIN 33897 – PART 2) < 0,1%, Free Crystalline Silicia* In Alveolar Dust CAS No:238-878-4 < 5%, Alveolar Content Of Crystalline Silici* In Product** (DIN 33897 – PART 2) < 0,1% *including quartz, cristobalite, tridymite)

3.2 Additional information

Specific Concentration limits: None

M-Factor: None

Notes: None

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4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General notes

- When in doubt or if symptoms are observed, get medical advice.

4.1.2 Following inhalation

- If inhaled, remove to fresh air. If not breathing, give artificial respiration.
- In case of dyspnea give oxygen.
- Get medical attention.



4.1.3 Following skin contact

- Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.
- Get medical attention if irritation persists.



4.1.4 Following eye contact

- Check for and remove any contact lenses.
- Rinse out with water for at least 15 minutes with the eyelid held wide open.
- Get medical attention if irritation persists.



4.1.5 Following ingestion

- Wash out mouth with water.
- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Do not induce vomiting unless directed to do so by medical personnel.
- Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.
- Maintain an open airway.
- Get medical attention.



4.1.6 Self-protection of the first aider

- First aid assistant: Pay attention to self-protection!

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

Potential acute health effects

Eye contact: Moderately irritating to mucous membranes.
Inhalation: No known significant effects or critical hazards.
Skin contact: Dust may render the skin dry and chappy
Ingestion: Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: Moderately irritating to mucous membranes.
Inhalation: In the event of long-term excess of the TLV value and extended inhalation effect, fine dust containing quartz may cause silicosis
Skin contact: Dust may render the skin dry and chappy
Ingestion : Harmful if swallowed.

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- 4.3. Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media

- Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

- None known.

5.2 Special hazards arising from the product.

- The material is not flammable and it does not support fire.
- No hazardous thermal decomposition products.
- Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3 Advice for fire-fighters

- Wear full chemical protective clothing. In case of fire: Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

- Avoid dust formation.
- Avoid breathing dust.
- No action shall be taken involving any personal risk or without suitable training.
- Keep unnecessary and unprotected personnel from entering.
- Do not touch or walk through spilled material.
- Evacuate the accident area.
- Refer to protective measures listed in section 7 and 8.
- Wear appropriate personal protective equipment as described in section 8.

6.1.2. For emergency responders

- If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
- See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- Do not empty into drains and sewers.
- Keep from entering to water and ground water systems.
- Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

- Control personal contact by using protective equipment as required

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- Take up contaminated material and pass on for further processing.
- Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- Move containers from spill area.
- Avoid dust generation.
- Pick up mechanically and transfer to properly labelled containers.
- Remove the spill using vacuum cleaning systems or shovels.
- Place spilled material in a designated, labeled waste container.
- Dispose of via a licensed waste disposal contractor.
- Control personal contact by using protective equipment.

6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Personal preventions

- Avoid formation of dust and aerosols.
- Wear personal protection equipment. Refer to chapter 8.
- Do not eat, drink, smoke or sneeze at the workplace.
- Dangerous areas must be delimited and marked with appropriate warning and safety signs.
- Fill only into labeled container.
- Always wash hands with soap and water after handling.
- Avoid contact with hand and eye
- Avoid breathing dust of the product.
- Working areas must be arranged in such a manner that they can be cleaned at all times.
- Take off all contaminated clothing immediately and never use before washing.

7.1.2 Measures to Prevent Fire

- See section 5.

7.1.3 Measures to Protect Environment

- Dispose of waste material according to local, state and federal regulations.

7.1.4 Advice on general occupational hygiene

- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating

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areas.

7.2 Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations.
- Store away from ignition sources, food and drink.
- Keep container tightly closed.
- Store in original containers.
- Store in a cool, dry, well-ventilated area.
- Avoid contact with incompatible materials
- Avoid physical damage to containers.
- Please give the priority usage for damaged packaged.
- Do not store in unlabeled containers.
- Keep/Store only in original container.

STORAGE INCOMPATIBILITY

- Not known

Advice on common storage

- See also instructions on the label.
- Store in a cool, dry, well-ventilated area.
- Keep away from food, drink and animal feeding stuffs.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage.

7.3 Specific precautions on storage

- Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

8.1.1 Occupational exposure limits

Name	NEPSI mg/m ³	Revision
Limiting Value Of Inert Dust (Alveolar Content)	10	TRGS900 1/2006
Limiting Value Of Inert Dust (Breathable Content)	3	TRGS900 1/2006

8.2 Exposure controls

Adequate ventilation should be used during processing.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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8.2.1 Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Ensure that eyewash stations and safety showers are proximal to the work-station location.
Keep away from food, drink and animal feeding stuffs.
Use personal protective equipment according to EN⁸ standards.
See Section 7

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye / Face protection:

Wear safety glasses
In the event of heated product exposure, face shield must be used and remove contact lens as soon as practicable.
Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.



8.2.2.2 Skin protection

Hand protection

- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Wear chemical resistant gloves with EN 374, EN 388 and EN 420 standard.
- Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended



Body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.



Other protection

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- Prophylactic use of protective ointment (barrier cream) is recommended.

8.2.2.3 Respiratory protection

- Use a properly fitted, dust mask/filter P2 with an approved standard if a risk assessment indicates this is necessary.
- Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form/Physical state	Powder
Color	Beige
Odor	No data available
pH	2-4
Flash point (°C)	No data available
Flammable properties	Non-flammable
Explosive properties	Not explosive
Explosion limits, %	No data available
Vapor pressure, mmHg (15.5 °C)	No data available
Vapor density, (15-20 °C & 59-68 °F, Air: 1)	No data available
Autoignition point (°C)	None
Boiling Point (°C)	No data available
Density (kg/m ³)	No data available
Water Solubility	Insoluble
Apparent porosity	No data available
Bulk Density (mg/L)	400
Viscosity (Cp)	Not applicable

9.2 Other Information

Other physical and chemical parameters

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

- Stable under recommended storage and handling conditions. (See section 7.)

10.3 Possibility of hazardous reactions

- No hazardous reaction occurs under recommended storage and handling conditions.

10.4 Conditions to avoid:

- None

10.5 Incompatible materials:

- None

10.6 Hazardous decomposition products:

- No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Based on our experience and the information available, adverse health effects are

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expected if not handled as recommended with suitable precautions for designated uses. The product has not been tested in animal experiments. The toxicological data has been taken from products of similar composition.	
11.2 Acute toxicity	Oral LD50: >5000 mg/kg (rat)
11.3 Skin corrosion/irritation and Eye damage/irritation:	- It moderately irritate to mucous membranes. (Eyes) - It is not irritating on skin
11.4 CMR effects (Carcinogenity) :	The product does not have carcinogenic effect.
11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :	The product does not have mutagenic effect. In vitro gene mutation study in bacteria Result: negative (OECD⁹ Method 471)
11.6 Other Toxicological Effects:	
Allergic Effects	No data available
Effects on Repeated Doses Chronic Exposures	Precautions should be taken to minimize exposure.
Sensitization	Not sensitizing
Developmental Toxicity (Teratogenicity)	No data available
Fertility	No data available
11.7 STOT-single/repeated exposures:	
STOT-single exposure	The substance is not classified as a specific target organ toxicant.
STOT-repeated exposure	The substance is not classified as a specific target organ toxicant.
11.8 Symptoms related to the physical, chemical and toxicological characteristics:	
In case of inhalation	In the event of long-term excess of the TLV ¹⁰ value and extended inhalation effect, fine dust containing quartz may cause silicosis.
In case of skin contact	Dust may render the skin dry and chappy
In case of eye contact	Due to dust raising, light irritation of eyes and/or mucous membranes is possible.
In case of ingestion	Harmful if swallowed.
11.9 Additional Toxicological Information:	- Toxicological classifications are based on available knowledge and information - The special effects to health are considered by taking into account the information in section 3.



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12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Unlikely to be toxic to fish based on low solubility in water and results from algal and invertebrate studies.

Daphnia toxicity EC50 > 100 mg/L (48 h, Daphnia magna (Water flea)) (OECD 202)

Algae toxicity : EC50 > 100 mg/L (72 h, Desmodesmus subspicatus (green algae)) (OECD 201)

Bacteria toxicity: EC50 > 1 g/L (3 h) (OECD 209)

12.2 Persistence and degradability

Abiotic Degradation: No data available

Physical- and Photo-chemical elimination: No data available

Biodegradation: Not biodegradable. Product is of mineral origin.

12.3 Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): No data available

Bioconcentration factor (BCF): No data available

12.4 Mobility in Soil

Solid

Solubility in water: Insoluble

Water contaminating class:(Self classification acc. to German "VwVwS-concept")

NWG: Not water endangering

Bentonite is almost insoluble and thus presents a low mobility in most soils.

Known or predicted distribution to environmental compartments: Surface tension: No data available

Adsorption/Desorption: No data available

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 product is not fulfilling PBT (persistent/bioaccumulative/toxic)/vPvB (very persistent/very bioaccumulative) criteria

12.6 Other adverse effects

See the sections 6, 7, 13, 14 and 15.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product / Packaging disposal

- The generation of waste should be avoided or minimized wherever possible.
- Can be landfilled or incinerated.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- When recycling of the product is not possible, disposal to landfill or incineration in

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	accordance with all applicable government laws and regulations is recommended.
	- Disposal according to local authority regulations. - According to the European Waste Catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user. - Contaminated packaging can be re-used after emptying and cleaning.
13.1.2	Waste Treatment-Relevant Information
	When in compliance with the Environmental Protection (Duty of Care) Regulations 1991.
13.1.3	Sewage Disposal-Relevant Information
	None
13.1.4	Other Disposal Recommendations
	- Dispose of chemicals waste or in accordance with local regulations. - Follow all applicable local laws, rules and regulations regarding the proper disposal of this material. - If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal. - Dispose of waste according to applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

	ADR ¹¹ /RID ¹²	ADNR ¹³	IMDG ¹⁴	ICAO ¹⁵ /IATA ¹⁶
TRANSPORTATION	Road	River	Marine	Airways
14.1 UN No.	-	-	-	-
14.2 Un Proper Shipping Name	The product is not hazardous for transportation			
Symbols	-	-	-	-
HIN No	-	-	-	-
Tunnel Restriction Code	-	-	-	-
14.3 Transport Hazard Class	-	-	-	-
14.4. Packaging Group	-	-	-	-
14.5 Environmental Hazards	-	-	-	-
14.6 Special Precautions For Users	Not Available			
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not Available			

15. REGULATORY INFORMATION

15.1	Safety, Health And Environmental Regulations / Legislation Specific For The Substance or Mixture
	None of the ingredients is found on the regulatory lists.

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15.1.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

INTERNATIONAL REGULATIONS

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) and ISO 11014:2009.

This product is classified according to EU Directive GHS/CLP.
European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2015)

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this substance/ mixture by the supplier.

16. OTHER INFORMATION

16.1 Other information

- For additional information regarding products please contact the **NB GLOBAL MADENCİLİK VE KİMYA SANAYİ TİCARET ANONİM ŞİRKETİ** The above information complies with the 1907/2006 Directives and their amendments.

16.2 Related Person

- AYANSAN CHEMICAL CONSULTANCY PLASTIC INC. AND TRD. LTD. CO.
- Prepared by
- Chemical Safety and Regulatory Affairs Consultant: MSc Burak AYAN (burakayan@ayansan.com)
- www.ayansan.com info@ayansan.com +90 (212) 485 50 59
- NB GLOBAL MADENCİLİK VE KİMYA SANAYİ TİCARET
- ANONİM ŞİRKETİ

16.3 Revision Date, Version and SDS no

- Date: December 9, 2022
- Version: 1.0
- SDS No: 820001

16.4 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

16.5 Relevant H- and EUH-phrases:

Not applicable

16.6 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.
- Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- The information provided in this Safety Data Sheet is correct to the best of our



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knowledge, information and belief at the date of its publication.

- The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.
- The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

¹ SDS: Safety Data Sheet

² CAS: Chemical Abstracts Service

³ EC: European Community Number

⁴ CLP: Classification Labelling and Packaging

⁵ GHS: Global Harmonised System

⁶ CAS : Chemical Abstract Service

⁷ EC : European Community number

⁸ EN Standards: Personal Protective Equipment Standards Determined by CEN (European Committee for Standardization)

⁹ OECD: Organisation for Economic Co-operation and Development

¹⁰ TLV: Threshold limit value

¹¹ ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

¹² RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

¹³ ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

¹⁴ IMDG: International Maritime Dangerous Goods (United Nations)

¹⁵ ICAO: International Civil Aviation Organization

¹⁶ IATA: International Air Transport Association

