

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

# MADUR® 212 BLEACHING EARTH

 Version:
 1.0
 Prep Date:
 9/10/2022

 Form No:
 820001
 Rev. Date:
 9/10/2022

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

1.1	Product Identifier			
	Name of Product	MADUR® 212 Bleaching Earth		
	SDS <sup>1</sup> Form No	820001		
	Chemical Name	Bentonite		
	CAS <sup>2</sup> No	1302-78-9		
	EC <sup>3</sup> 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	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	Dr. Hasan Cebi		
	Responsible for the SDS	info@nb-global.com.tr		
1.4	1.4 Emergency Telephone Number			
	Company Emergency	+90 533 611 83 65		

# 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 [CLP<sup>4</sup>/GHS<sup>5</sup>]

#### **Product Identifier**

Hazard Component for Labeling

Not applicable

#### **Hazard Pictograms**

Not applicable

# Signal Word

Not applicable





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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<sup>6</sup> No EC<sup>7</sup> 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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#### 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.

#### 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 elimited 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.

#### 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 <sup>3</sup>	Revision
Limiting Value Of Insert Dust (Alveolar Content)	10	TRGS900 1/2006
Limiting Value Of Insert 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 EN<sup>8</sup> standards.

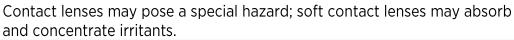
See Section 7

#### 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.





#### 8.2.2.2Skin 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.

#### 8.2.2.3Respiratory protection

- Use a properly fitted, dus 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.



None

No data available

No data available

Insoluble

No data available

400

Not applicable



# **Safety Data Sheet**

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#### PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties			
Form/Physical state	Powder		
Color	Beige		
Odor	No data available		
рН	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		

# 9.2 Other Information

Other physical and chemical parameters

#### 10. STABILITY AND REACTIVITY

Autoignition point (°C)

Boiling Point (°C)

Density  $(kg/m^3)$ 

Water Solubility

Viscosity (Cp)

Apparent porosity

Bulk Density (mg/L)

#### 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 irriating 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 mutajenic effect.

In vitro gene mutation study in bacteria

Result: negative (OECD<sup>9</sup> 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	No data available
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 <sup>10</sup> value and extended inhalation effect, fine dust containing quartz may cause silicosis.	
	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.	
	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 bioaccummulative) 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

#### 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 <sup>11</sup> /RID <sup>12</sup>	ADNR <sup>13</sup>	IMDG <sup>14</sup>	ICAO <sup>15</sup> /IATA <sup>16</sup>
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 MADENCILIK 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 SİRKETİ

#### 16.3 Revision Date, Version and SDS no

- · Date: September 10, 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.



<sup>&</sup>lt;sup>1</sup> SDS: Safety Data Sheet

<sup>&</sup>lt;sup>2</sup> CAS: Chemical Abstracts Service

<sup>&</sup>lt;sup>3</sup> EC: European Community Number

<sup>&</sup>lt;sup>4</sup> CLP: Classification Laballing and Packaging

<sup>&</sup>lt;sup>5</sup> GHS: Global Harmonised System

<sup>&</sup>lt;sup>6</sup> CAS: Chemical Abstract Service

<sup>&</sup>lt;sup>7</sup> EC: European Community number

<sup>&</sup>lt;sup>8</sup> EN Standards: Personal Protective Equipment Standards Determined by CEN (European Committee for Standardization)

<sup>&</sup>lt;sup>9</sup> OECD: Organisation for Economic Co-operation and Development

<sup>&</sup>lt;sup>10</sup> TLV: Threshold limit value

<sup>&</sup>lt;sup>11</sup> ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

<sup>&</sup>lt;sup>12</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

 $<sup>^{13}</sup>$  ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

<sup>&</sup>lt;sup>14</sup> IMDG: International Maritime Dangerous Goods (United Nations)

<sup>&</sup>lt;sup>15</sup> ICAO: International Civil Aviation Organization

<sup>&</sup>lt;sup>16</sup> IATA: International Air Transport Association