

01/01/2026



BB MADENCILIK SAN. VE TİC. A.Ş.

UNYE OSB. KILLIK MAH. 104 SK. NO:13 C UNYE/ORDU/TURKIYE

MATERIAL SAFETY DATA SHEET

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

Product Identifier: Bentonite (5-Al₂O₃, 2-MgO, 24-SiO₂, 6-H₂O, (Na₂O, CaO)

Relevant identified used of the substance or mixture and used advised against:

Bentonite has variety of uses such as raw material for cat litter, ceramic, quality paper, detergent, paints, filtration (oil, wine, beer etc), cosmetics, ingredients, Pharmaceutical formulations, food and feed additives in human and animal nutrition.

There are no uses advised against.

Manufacturer Name:

BB MADENCILIK SAN. VE TİC. A.Ş.

Manufacturer's Address:

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TURKIYE

Emergency Telephone Number: 0090(452) 330 00 52

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Bentonite with less than 10%w/w crystalline silica does not meet the criteria for classification as hazardous according to EC Regulation 1272/2008 and Directive 67/548/EC as amended. Depending on the handling and use (grinding, drying, bagging), airborne respirable dust may be generated. Dust Contains respirable crystalline silica. Prolonged and or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimize or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The Respirable crystalline silica content can be measured using the "size-Weighted Respirable Fraction – SWERF" Method. All Details about the SWERF method is available at www.crystallinesilica.eu

SECTION 3: COMPOSITION/INFORMATION ON INTEREDIENTS

Substances: Montmorillonite is the main constituent of all types of bentonite, making up roughly 90% percent of most types. Silica or quartz, is the second most prominent component. It makes up less than 5 percent of bentonite. Other constituents (e.g. feldspar, gypsum, kaolinite, opal CT) is small amount and these minor constituents are not relevant for classification and labelling.

Mixture: No Mixture

SECTION 4: FIRST AID MEASURES:

General Advice: No Known delayed effects. Consult a physician for all exposures except for minor instances.

Following inhalation: No Special Measure, move sources of dust or move person to fresh air. Obtain medical attention immediately.

Following Skin Contact: No Special Measure. Wash with soap and water. If Necessary seek medical advice.

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Following Eye Contact: No Special Measure. Rinse eyes immediately with plenty of water. If symptoms persist seek medical advice.

Following ingestion: No special measure: clean.

Most Important symptoms and effects, both acute and delayed: The acute symptoms would pain in the eyes because of dust entry. No delayed affected are anticipated if first aid treatment is applied and is effective.

Indication of any immediate medical attention and special treatment needed. No need for immediate medical attention, follow the advice given in section 4.1

SECTION 5: FIRE FIGHTING MEASURES:

Extinguishing Media: The Product is not combustible. Use a dry water, power, foam or CO2 fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstance and the surrounding environment. No restriction on the extinguishing media to be use in cases of fire in its vicinity.

Special hazards arising from the substance or mixture: The material is not flammable and its does not support fire. No hazardous thermal decomposition products.

Advice for firefighters: Avoid generation of dust. Use breathing apparatus. Product on floor when wetted will become slippery and may present a hazard: wear anti-slip boots. Use extinguishing measures that are appropriate to local circumstance and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Personal precautions, Environmental precautions and emergency procedures:

For non-emergency personnel:

Ensure adequate ventilation. Keep dust levels to a minimum. Keep unprotected persons away. Avoid contact with skin, eyes and clothing-wear suitable protective equipments (see section 8). Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used. Take care of wet product on floor, which presents a slip hazardous.

For emergency personnel:

Ensure adequate ventilation. Keep dust levels to a minimum. Keep unprotected persons away. Avoid contact with skin, eyes and clothing-wear suitable protective equipments (see section 8). Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used. Take care of wet product on floor, which presents a slip hazardous.

For Environment precautions:

no special requirement. Contain the spillage. If product is released from trucks in road, place signposts to divert traffic and remove spill using vacuum cleaning systems.

Methods and Material for containment and cleaning up:

Avoid dust formation, avoid dry sweeping use vacuum suction unit or shovel into bags.

Reference to other sections:

For more information on exposure controls/personal protection or disposal considerations, please check sections 8 and Of this safety data sheet.

SECTION: 7: HANDELING AND STORAGE:

Precautions for safe handling:

Protective measures:

Keep Dust levels to a minimum. Minimize dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment refer to section 8 of the safety data sheet. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section

Advice on General Occupational hygiene: Keep Dust levels to a minimum dust generation.

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General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices. (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

Conditions for safe storage, including any incompatibilities: Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

Specific end use(s): If you require advice on special uses, please contact your supplier or check the good practice guide referred to in section 16.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION:

Control Parameters: Maintain personal exposure below occupational exposure limit for inhalable and respirable dust as dictated in the national legislation. The occupational exposure limit for respirable crystalline silica in EU countries is given in: http://www.nepsi.eu/media/445/oel_table_dust-qct_may-2010-jan09.pdf

Exposure controls:

Appropriate engineering controls: Minimise airborne dust generation. Use process enclosure, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If used operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures e.g. by isolation personnel from dust areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipments

For Eye/Face Protection. Do not wear contact lenses. For powders. Tight fitting goggles with side shields, or wide vision full goggles. It is also advisable to have individual pocket eyewash.

For Skin/Hands protection, normal work clothes are appropriate. Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

For Respiratory protection. Local ventilation to keep levels below established threshold values is recommended. In case of prolonged exposure to airborne dust concentrations, a suitable particle filter mask that complies with the requirements of national legislation is recommended, depending on the expected exposure levels Thermal Hazards.

Environmental Exposure controls: All Ventilation systems should be filtered before discharge to atmosphere. Avoid releasing to the environment. Contain the spillage.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid
Odour and Appearance:	Light colour (white, grey, pink, yellow, green, brown) granules or Powder Odourless
pH:	8.1 to 10.5
Specific gravity	2.5 g/cc
Bulk density	1.18 g/cc
% Soluble in water:	Nil
Melting Point	1200°C
Boiling Point:	Not applicable

Freezing Point:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Flash Point:	Not applicable / non-flammable product.

SECTION 10: STABILITY AND REACTIVITY:

Reactivity: Inert, not reactive.

Chemical Stability: Bentonite is chemically stable.

Possibility of hazardous reactions: No hazardous reaction.

Conditions to avoid: Minimise exposure to air. Slippery when wet.

Incompatible materials: Avoid storing together with materials that may be affected by dust.

Hazardous Decomposition products: None.

SECTION 11: TOXICOLOGICAL INFORMATION:

Information on toxicology effects: The product does not meet the criteria for classification as hazardous according to EC Regulation 1272/2008 and Directive 67/548/EC as amended. The product contains less than 1% w/w RCS (Respirable crystalline silica)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No specific adverse effects known.

Persistence and degradability: Not relevant for inorganic substances.

Bioaccumulative potential: Not relevant for inorganic substances.

Mobility in Soil: bentonite is almost insoluble thus presents a low mobility in most soils.

Results of PBT and vPVB assessment: Not relevant for inorganic substances.

Other adverse effects: No other adverse are identified.

SECTION 13: DISPOSAL CONSIDERATIONS:

Waste treatment methods: The residues/unused product can be disposed in landfills following national and local regulations. Dispose in such a way to avoid dust generation. Where possible, recycling should be proffered to disposal.

Packing: No specific requirements. In all cases dust formation from residues in the packing should be avoided and suitable protection be assured.

SECTION 14: TRANSPORT INFORMATION:

The Material is not classified as a dangerous substance and no restrictions apply for land/sea/air transportation. Avoid dust spreading.

UN Number: Not relevant.

UN Proper shipping Name: Not Relevant.

Transport Hazard class(ed)

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

Packing group: Not applicable.

Environment hazards: Not relevant.

Special precautions for user: Avoid any release of dust during transportation, by using air-tight

tanks for powders and covered trucks for pebbles.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not regulated

SECTION 15: REGULATORY INFORMATION:

Safety, health and environmental regulations/legislation specific for the substances:

Authorisations: Not Required

Restriction on use: None.

Other EU regulations: Bentonite is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.

National regulations: Refer to other regulatory exposure limits for workforce enforced in each country(See Annex 1 and Link in section 8).

National regulations: The product (bentonite) is not separately classified by the occupational Health and Safety Administration (OSHA). The product had not been classified as a human carcinogen by OSHA, the international Agency for Research on Cancer (IARC) and the national Toxicology Program (NTP)

Chemical safety assessment: Bentonite is exempted from REACH registration

In accordance with Annex V.7. A hazard assessment has been conducted under the European Bentonite Association (EUBA) and the outcome was that bentonite is not a hazardous substances. Therefore, in absence of identified hazard, the substances is safe and presents no risk

SECTION 16: OTHER INFORMATION:

Data are based on our latest knowledge but do not constitute a guarantee for any specific product featured an do not establish a legally valid contractual relationship.

Hazard statements: not relevant

Precautionary Statement: Not relevant

Risk Phrases: Not relevant

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