



VOLTECO Spa

BENTONITE SODICA GRANULARE

Revision n. 1.0

Revision date 26/06/2018

Printed on 26/06/2018

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SECTION 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Name **BENTONITE SODICA GRANULARE**

1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use **Sodium Bentonite**

1.3. Supplier information of the safety data sheet

Company Name **VOLTECO Spa**
Address **Via delle Industrie, 47**
District and Country **31050 Ponzano Veneto (TV) - IT**
Telephone **+39 0422 9663**
Fax **+39 0422 966401**
e-mail address of the person in charge of the safety data sheet **volteco@volteco.it**

1.4. Emergency telephone number

For urgent enquiries, please contact **+39 0422 9663**

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as dangerous for life, human health and the environment.

2.2 Label elements

Hazard pictograms and warning words **None**

Hazard statements **None**

Precautionary tips **None**

2.3 Other hazards

The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture

Bentonite with a natural crystalline silica content of < 6%.

SECTION 4. First aid measures

4.1 Description of the first aid measures

Contact with skin Take all contaminated clothing off. Wash the contaminated skin thoroughly with plenty of water with soap. Consult a doctor if disturbing symptoms appear.

Contact with eyes Protect the non-irritated eye, remove contact lenses. Wash the contaminated eye with plenty of water for 10-15 minutes. Avoid powerful water stream - risk of cornea damage. Consult a doctor if disturbing symptoms appear

Swallowing Do not induce vomiting. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Consult a doctor immediately, show the container or label

Inhalation Move victim to fresh air. Keep victim warm and calm. Consult a doctor if disturbing symptoms appear.

4.2 Main symptoms and effects, both acute and delayed

Contact with eyes Possible redness, tearing, burning sensation, mechanical irritation.

Swallowing Possible gastrointestinal problems.

Inhalation Created dusts may cause coughing, irritation of the respiratory tract

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5. Fire-fighting measures

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5.1 Extinguishing agents

Suitable extinguishing agents

Carbon dioxide, dry chemicals, foam, water spray. Adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing agents

Water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce harmful gas containing carbon oxides or other products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Recommendations for those in charge of putting out fires

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Handle in accordance with good occupational hygiene and safety practices. Ensure that only the trained personnel removes the effects of the accident. Use personal protective measures. Avoid the formation of dust.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment.

6.3 Methods and materials for containment and cleaning up

Collect mechanically, avoid dusting. Transfer the collected material for re-use or treat it as waste.

6.4 Reference to other sections

Appropriate conduct with waste product – Section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices.

Before break and after work wash hands.

Use only in accordance with identified purpose.

Avoid the formation and accumulation of dust.

Avoid contact with eyes.

7.2 Conditions for safe storage, including any incompatibility

Store in a cool and well-ventilated place.

Protect against weather conditions (solar radiation, frost and precipitation, etc.).

There are no special restrictions on storage with other products.

7.3 Specific end uses

No information on uses other than those indicated in subsection 1.2.

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Product does not contain components with occupational exposure limit values established on the Community level.

Legal basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164.

The table above shows the maximum workplace concentration values at the Community level.

Please check any national occupational exposure limit values in your country.

8.2 Exposure controls

Use the product in accordance with good occupational hygiene and safety practices.

Do not eat, drink or smoke when using the product.

Before break and after work wash hands carefully.

Eye protection

Safety glasses are recommended if there is a risk of eye contamination.

Protection of hands and body

Use skin protection measures adequate to existing thermal, chemical or mechanical hazards.

Respiratory protection

In case of air pollution with dusts in concentrations exceeding their normative values, use filtration equipment selected depending on the multiplicity of exceedance of the OEL value (P1 / applied at a concentration of particles not higher than 4 x OEL, P2) applied at a concentration of particles not higher than 10 x OEL, P3 / is used at a particle concentration of not higher than 30 x OEL). Applied personal protective equipment must comply with the requirements of the Regulation (EU) 2016/425.



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| | The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning. |
| Environmental exposure controls | Do not allow large quantities of the product to contaminate ground water, canalization, sewages or soil. |

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

| Description | Values |
|---|---|
| Physical state | Solid/Powder or granulate |
| Colour | Beige |
| Odour | Odorless |
| Olfactory threshold | Not determined |
| pH | Not applicable. |
| Punto/Intervallo di ebollizione | Not applicable. |
| Melting/Freezing point | Not applicable. |
| Flash point | Not applicable. |
| Flammability (solids/gases) | Not determined |
| Decomposition temperature | Not determined |
| Auto-ignition temperature | the product is not subject to self-ignition |
| Evaporation rate | No data available/Not applicable |
| Upper/Lower flammability or explosivity limit | Not determined |
| Vapour pressure | Not applicable. |
| Relative vapour density | Not applicable. |
| Density at 20 °C | Not determined |
| Water solubility | Insoluble in water |
| Partition coefficient n-octanol/water | Not determined |
| Viscosity | Not applicable. |
| Explosive properties | Non mostrate |
| Oxidising properties | Non mostrate |

9.2 Other information

No additional test results.

SECTION 10. Stability and reactivity

10.1 Reactivity

Product is feebly reactive. See also subsections 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

There are no known hazardous reactions.

10.4 Conditions to be avoided

Protect from moisture.

10.5 Incompatible materials

Strong oxidants.

10.6 Hazardous decomposition products

Not known.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Information of the most probable means of exposure

| | |
|---|---|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Acute toxicity | Based on available data, the classification criteria are not met. |
| Serious eye injuries/serious eye irritations | Based on available data, the classification criteria are not met. |



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|---|---|
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Toxic for reproduction | Based on available data, the classification criteria are not met. |
| Specific toxicity for target organs (STOT) - Single exposure | Based on available data, the classification criteria are not met. |
| Specific toxicity for target organs (STOT) - Repeated exposure | Based on available data, the classification criteria are not met. |
| Risk if inhaled | Based on available data, the classification criteria are not met. |

SECTION 12. Ecological information

12.1 Ecotoxicity

The product is not classified as dangerous for the aquatic environment.

12.2 Persistence and degradability

Product is hardly biodegradable.

12.3 Bioaccumulative potential

The product has no bioaccumulation potential.

12.4 Mobility in the soil

The product does not absorb into the soil.

12.5 Results of the PBT and vPvB evaluation

Components do not meet the PBT or vPvB criteria.

12.6 Other adverse effects

Not known.

SECTION 13. Disposal considerations

13.1 Waste processing methods

Product

| | |
|---|--|
| Methods of disposal of the product | The waste product must be recovered or disposed of in authorized incinerators or waste treatment plants / disposal facilities in accordance with current regulations. Do not empty into drains. Store residues in original containers. |
| Methods of disposal of used containers | Reuse/recycle/eliminate empty containers in accordance with the legislation in force. Legal basis: Directive 2008/98/EC, 94/62/EC. |

SECTION 14. Transport information

| - | ADR/RID - ADN/RID | IMDG | IATA |
|--|---|---|---|
| 14.1 UN number | Not applicable. The product is not hazardous for the environment. | Not applicable. The product is not hazardous for the environment. | Not applicable. The product is not hazardous for the environment. |
| 14.2 UN Shipping name | Not applicable. | Not applicable. | Not applicable. |
| 14.3 Hazard classes | Not applicable. | Not applicable. | Not applicable. |
| 14.4 Packaging groups | Not applicable. | Not applicable. | Not applicable. |
| 14.5 Hazardous for the environment Marine Pollutant | Not applicable. | Not applicable. | Not applicable. |
| 14.6 Special precautions | Not applicable. | Not applicable. | Not applicable. |
| 14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. | Not applicable. | Not applicable. |

SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as



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Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

15.2 Chemical safety assessment

Chemical Safety Assessment is not required for mixtures.

SECTION 16. Other information

List of abbreviations

- PBT: Persistent, bioaccumulating and toxic substance
- vPvB: Very persistent and very bioaccumulative substance

Training

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and data sources

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer.

They are neither a quality description of the product nor a guarantee of particular features.

They are to be treated as aid to safety in transport, storage and usage of the product.

That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.