

System 300

NEWTON 314-BG

Detailing Bentonite Granules

Rev 3.0 - 14 May 2021

PRODUCT CODE - BG314

1. Product Identification

- Trade name: Newton 314-BG
- Application of the substance/ the preparation: Bentonite granules
- Company Address: Newton Waterproofing Systems, Newton House, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web: www.newtonwaterproofing.co.uk
- Email address of the competent person: info@newtonwaterproofing.co.uk
- Emergency telephone number: +44 (0)1732 360 095
9am - 5pm (GMT) Mon - Fri

2. Hazardous Ingredients

- Hazards identification: Not applicable

3. Composition/Information on Ingredients

CHEMICAL CHARACTERIZATION

- Description: A hydrated aluminosilicate mineral with typical empirical formula: $(Al, Fe_{0.67} Mg_{0.33}) Si_4O_{10}(OH)_2Na_{0.33}Ca_{0.33}$
Typical mineralogical composition: >95% Bentonite (CAS No. 1302-78-9); up to 2% sodium carbonate (CAS No. 497-19-8); up to 1% crystalline silica (CAS No. 14808-60-7).
- Classification (EC 1272/2008): Not classified
- Classification (67/548/EEC):: Not classified

4. First-Aid Measures

4.1. Description of first aid measures

- General information: No acute and delayed symptoms and effects are observed.
- Inhalation: Move into fresh air and keep at rest. Get medical attention if any discomfort continues.
- Ingestion: Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact: Wash skin with soap and water. Use suitable lotion to moisturise skin.
- Eye contact: Do not rub eye. Rinse with copious quantities of water and seek medical attention if irritation persists.

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

General information: The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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

No specific first aid measures noted.

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5. Fire-Fighting Measures

- 5.1. Extinguishing media The product is non-combustible. No specific extinguishing media is needed.
- 5.2. Special hazards arising from the substance or mixture
- This product is not combustible. Small amounts of carbon dioxide will be produced.
- 5.3. Advice for firefighters
- Special Fire Fighting Procedures: No specific fire-fighting protection is required. Use an extinguishing agent suitable for the surrounding fire.

6. Accidental Release Measures

- 6.1. Personal precautions Avoid causing dust, wear personal protective equipment in compliance with national legislation.
- 6.2. Environmental precautions No known adverse environmental effects.
- 6.3. Methods for clearing up Scoop up spillages and place in a container. Avoid creating airborne dusts. Wear appropriate respiratory protection, safety glasses and overalls as a precaution. When used to absorb a hazardous substance, handle as per that substance.
- 6.4. Personal precautions For personal protection, see section 8. For waste disposal, see section 13.

7. Handling and Storage

- 7.1. Precautions for safe handling Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. Do not to eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas.
- 7.2. Conditions for safe storage, including any incompatibilities
- Store in a dry, covered area. 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.
- 7.3. Specific end use(s) If you require advice on specific uses, please contact your supplier.

8. Exposure Controls / Personal Protection

- 8.1. Control Parameters Inorganic Dust: Workplace Exposure Limit = 4 mg/m³ (Respirable Dust)
Quartz: Workplace Exposure Limit = 0.1 mg/m³
- 8.2. Exposure Controls
- Engineering measures Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.
 - Respiratory Equipment In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation.
 - Hand Protection For prolonged or repeated skin contact use suitable protective gloves. PVC or rubber gloves are recommended.

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- Eye Protection Use eye protection. Goggles/face shield are recommended.
- Hygiene Measures When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
- Skin Protection No specific requirement. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

9. Physical and Chemical Properties

- Physical State Granular solid
- Colour Grey
- Odour Odourless
- pH-value 9-10
- Bulk density 1000 – 1050 Kg/m³
- Solubility Insoluble in water
- Flammability Not flammable

10. Stability and Reactivity

- 10.1. Environmental precautions No specific reactivity hazards associated with this product.
- 10.2. Chemical stability Stable under normal temperature conditions and recommended use.
- 10.3. Possibility of hazardous reactions Not applicable.
- 10.4. Conditions to avoid No particular incompatibility.
- 10.5. Incompatible materials Materials To Avoid: Strong acids.
- 10.6. Hazardous decomposition products None under normal conditions.

11. Toxicological Information

- 11.1. Information on toxicological effects
 - General information This product is low toxicity
 - Inhalation Silicosis of the lung may result from excessive inhalation of respirable particles (up to 10 microns in size) over an extended period.
 - Ingestion No known toxicology due to accidental ingestion.
 - Skin contact Prolonged contact may cause dryness of the skin.
 - Bulk density 1000 – 1050 Kg/m³
 - Eye contact Particles in the eyes may cause irritation and smarting.

12. Ecological Information

- Ecotoxicity This product is classified as environmentally non-hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
- 12.1. Toxicity
 - Acute Toxicity – Fish: Not toxic.
 - Acute Toxicity – Aquatic Invertebrates: Not toxic.
 - Acute Toxicity – Aquatic Plants: Not toxic.

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12.2. Persistence and degradability	The product is not biodegradable.
12.3. Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
12.4. Mobility in soil	This product is virtually insoluble in water.
12.5. Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
12.6. Other adverse effects	None known.

13. Disposal Considerations

General information	This mineral can be disposed of as a non-toxic/inactive material in approved landfill sites in accordance with locals.
13.1. Waste treatment methods	Where possible, recycling is preferable to disposal. Dispose of in compliance with local regulations..

14. Transport Information

General information	No special precautions. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number	No information required.
14.2. UN proper shipping name	No information required.
14.3. Transport hazard class(es)	No information required.
14.4. Packing group	No information required.
14.5. Environmental hazards	Not an Environmentally Hazardous Substance / Marine Pollutant.
14.6. Special precautions for user	Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No information required.

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	<ol style="list-style-type: none">1. Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.2. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).3. Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.4. REACH – Exempted in accordance with Annex V.75. Workplace Exposure Limits 2005 (EH40)
15.2. Chemical Safety Assessment	No chemical safety assessment has been carried out.

16. OTHER INFORMATION

(i) Indication of changes

Changes made to data sheet to comply with changes to regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

(ii) Abbreviations and acronyms

WEL TWA 8 HRS – Workplace Exposure Limit Time Weighted Average – 8 Hours UVCB - unknown or variable composition, complex reaction products or biological materials.

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(iii) Key Literature References and Sources of Data

Guidance Note EH40 Occupational Exposure Limits is published annually by the Health and Safety Executive. The latest relevant limits should be observed.

HS(G) 37 1993 "An introduction to Local Exhaust Ventilation" and Guidance Note EH44 2013 "Dust in the Work Place" are both available from HM Stationery Office.

Advice on respiratory protective equipment is also given in BS EN 529:200.

EN166: 2002 Personal Eye Protection.

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 CLP

This material is not classified under this regulation; respirable quartz content <0.1% of the product.

(v) Training Advice

All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under applicable regulations.