

FURSE EARTHING & LIGHTNING PROTECTION

# CM020 – Bentonite granules

## Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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## SECTION 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

### 1.1. Product identifier

Product form : Substance  
Substance name : Bentonite Granules  
Product code : CM020

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use

#### 1.2.2. Uses advised against

Restrictions on use : Uses other than as recommended above.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

ABB Furse  
Wilford Road, Nottingham NG2 1EB, United Kingdom  
Tel +44 (0)115 964 3700 [enquiry@furse.com](mailto:enquiry@furse.com) - [www.furse.com](http://www.furse.com)

### 1.4. Emergency telephone number

Emergency number : +44 (0)115 964 3700

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

#### 2.1.2. Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### 2.2.1. Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable

### 2.3. Other hazards

No additional information available

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Name : Bentonite Granules

Name	Product identifier	%
Bentonite	(CAS-No.) 1302-78-9 (EC-No.) 215-108-5	100
Quartz	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	≤ 1

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### 3.2. Mixtures

Not applicable

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

- Symptoms/effects after inhalation : Dust may cause respiratory tract irritation.
- Symptoms/effects after skin contact : Dust may cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Extinguishing media. Carbon dioxide (CO<sub>2</sub>). For large fire: Water spray. Alcohol foam.
- Unsuitable extinguishing media : Do not use a direct water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. May release hazardous fumes. Smokes.

### 5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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**6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions**

Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7. HANDLING AND STORAGE

**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Good housekeeping is important to prevent accumulation of dust. Avoid generating dust. Ensure adequate ventilation. Never use pressure to empty container.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store the containers between 5 and 35° C, in a dry and well-ventilated place. Store in original container. Keep away from heat. Keep away from oxidizing agents.

**7.3. Specific end use(s)**

Not available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

**Appropriate engineering controls:**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

**Hand protection:**

Wear suitable gloves

**Eye protection:**

Safety glasses or goggles are recommended when using product.

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**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. 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.

**Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules
Colour	: Cream, Grey, White
Odour	: Odourless
Odour threshold	: No data available
pH	: 8 – 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 1550 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.1
Solubility	: Insoluble
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No data available

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Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials.

#### 10.5. Incompatible materials

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release hazardous fumes. Smokes.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.
Skin corrosion/irritation	: Not classified. pH: 8 – 9
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Not classified. pH: 8 – 9
Additional information	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Not classified.

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Additional information : Based on available data, the classification criteria are not met.  
 STOT-repeated exposure : Not classified.  
 Additional information : Based on available data, the classification criteria are not met.  
 Aspiration hazard : Not classified.  
 Additional information : Based on available data, the classification criteria are not met.  
 Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified.  
 Hazardous to the aquatic environment, long-term (chronic) : Not classified.

### 12.2. Persistence and degradability

#### Bentonite Granules

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potentia

#### Bentonite Granules

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : No other effects known

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

## SECTION 14. TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

### 14.1. UN number

UN-No. (ADR) : Not regulated  
 UN-No. (IMDG) : Not regulated  
 UN-No. (IATA) : Not regulated

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#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not regulated

##### IMDG

Transport hazard class(es) (IMDG) : Not regulated

##### IATA

Transport hazard class(es) (IATA) : Not regulated

#### 14.4. Packing group

Packing group (ADR) : Not regulated  
Packing group (IMDG) : Not regulated  
Packing group (IATA) : Not regulated

#### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

##### 14.6.1. - Overland transport

Not regulated

##### 14.6.2. - Transport by sea

Not regulated

##### 14.6.3. - Air transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions.

Bentonite Granules is not on the REACH Candidate List

Bentonite Granules is not on the REACH Annex XIV List

Bentonite Granules is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Bentonite Granules is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16. OTHER INFORMATION**

Indication of changes:

CLP classification.

**Abbreviations and acronyms:**

°C – Degrees Celsius

°F – Degrees Fahrenheit

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH – American Conference of Governmental Industrial Hygienists

ATE – Acute Toxicity Estimate

BCF – Bioconcentration Factor

BEI – Biological Exposure Index

CAS – Chemical Abstracts Service

CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

cP – centipoise (unit of dynamic viscosity)

cSt – centistokes (unit of kinematic viscosity)

DNEL – Derived No-effect Level

EC50 – Half maximal effective concentration

ECHA – European Chemicals Agency

EC-No. – European Community number

EU – European Union

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

h – Hours

IATA – International Air Transport Association

IDLH – Immediately Dangerous to Life or Health

IMDG – International Maritime Dangerous Goods

IOELV – Indicative Occupational Exposure Limit Value

kPa – kilopascal

Kow – Octanol-Water Partition Coefficient

LC50 – Median Lethal Concentration

LD50 – Median Lethal Dose

mg/l – Milligram per liter

mg/kg – Milligram per kilogram

mg/m<sup>3</sup> – Milligram per cubic meter

Min – Minutes

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

N.O.S. – Not Otherwise Specified

OEL – Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

ppm – Parts per million

PVC – Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS – Safety Data Sheet

STEL – Short Term Exposure Limit

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TLV – Threshold Limit Value  
TWA – Time Weighted Average  
UN – United Nations  
vPvB - Very Persistent and Very Bioaccumulative

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Data sources : 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.

Other information : None.

Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



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