

SAFETY DATA SHEET

CALMAG

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

Product Identification

Product name: Calmag

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Aggregate

Details of the supplier of the safety data sheet

Supplier: Thermal Recycling (UK) Ltd
Four Ashes Business Park
Station Road
Wolverhampton
WV10 7DA
Tel: 01902 213640

Emergency telephone number

National emergency telephone:

NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only)

2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture - Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1

Environmental hazards Not Classified

2.2. Label elements

Hazard Pictogram



Signal Word Danger

Hazard Statement H318 Causes serious eye damage.

Contains Reaction mass of aluminium, calcium, and magnesium silicates, sulphates and oxides.

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Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P280 Wear eye protection P305+P351+P338 IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/. P501 Dispose of contents/ container in accordance with local regulations.
2.3. Other hazards	Dust created during handling and use can be hazardous. Because of the nature of the raw materials used to produce this product it is possible that some batches could contain small amounts of silica. Inhalation of silica particles in dust may cause respiratory damage. Dust may also contain respirable crystalline silica which is a potential carcinogen. Prolonged, excessive and repeated inhalation of respirable dust can give rise to long term respiratory system damage and disease such as fibrosis or silicosis. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Composition comments: This substance is registered as a UVCB comprising amorphous and crystalline calcium, magnesium, aluminium and iron silicates, carbonates, sulphates and oxides. The registered substance is;
100% Reaction mass of aluminium, calcium, and magnesium silicates, sulphates and oxides

CAS Number: Not assigned

EC Number: 952-167-2

Classification: Eye Dam. 1 (H318)

4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
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Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Get medical attention if irritation persists after washing.
Eye contact	Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	Inhalation of dust may give rise to irritation of the lungs and airway.
Ingestion	May cause discomfort if swallowed.
Skin contact	Calmag is not classified for skin irritation but prolonged and frequent contact may cause abrasion, redness and irritation.
Eye contact	Dust causes serious eye irritation/damage.

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

Notes for the doctor: Treat symptomatically.

5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion products The product is not combustible.

5.3. Advice for firefighters:

Protective actions during firefighting. No specific firefighting precautions known.

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6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions:

Do not discharge into drains or watercourses.

6.3. Methods and material for containment and cleaning up:

Collect spillage with a dust pan and brush.

6.4. Reference to other sections:

None noted.

7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Avoid inhalation of dust and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a dry, cool well-ventilated place. Keep only in the original container.

7.3. Specific end use(s):

The identified uses for this product are detailed in Section 1.2.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Workplace Exposure Limits

Dust: Long term exposure limit (8hr TWA) 10mg/m³ inhalable, 4 mg/m³ respirable

Silica, respirable crystalline (respirable fraction): Long term exposure limit (8hr TWA) 0.1mg/m³ respirable

8.2. Exposure controls

Protective equipment



Eye/face protection

Use eye protection when handling.

Face protection

Use gloves when handling.

Hygiene measures

Wash hands thoroughly after handling.

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Respiratory protection Wear FFP3 dust mask for respiratory protection if handling is creating dust

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid (Powder and granules)
Colour	Grey/White.
Odour	Odourless
pH	Not relevant.
Melting point	No information available.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not flammable.
Upper/lower flammability or explosive limits	Not relevant.
Other flammability	Not relevant.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	No information available.
Solubility(ies)	Insoluble in water.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising

9.2. Other information:

None noted.

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10: STABILITY AND REACTIVITY

10.1. Reactivity: Reacts, slowly and possibly exothermically with water.

10.2. Chemical stability: Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions: None known. Will not polymerise.

10.4. Conditions to avoid: Keep dry

10.5. Incompatible materials: Water.

10.6. Hazardous decomposition products: None known.

11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory sensitisation: Based on available data the classification criteria are not met.

Skin sensitisation: Based on available data the classification criteria are not met.

Genotoxicity - in vitro: Based on available data the classification criteria are not met.

Genotoxicity - in vivo: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity (fertility): Based on available data the classification criteria are not met.

Reproductive toxicity (development): Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure: Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Not anticipated to present an aspiration hazard.

Acute and chronic health hazards: This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

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- Inhalation: May cause irritation.
- Ingestion: May cause discomfort if swallowed.
- Skin contact: Prolonged and frequent contact may cause abrasion, redness and irritation.
- Eye contact: Causes serious eye damage

12: ECOLOGICAL INFORMATION

Ecotoxicity Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

- 12.1. Toxicity: The product is expected to have low aquatic toxicity
- 12.2. Persistence and degradability: The product is not biodegradable.
- 12.3. Bioaccumulative potential: The product is not bioaccumulating.
- 12.4. Mobility in soil: The product is insoluble in with water and will settle in water systems.
- 12.5. Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.
- 12.6. Other adverse effects: None known.

13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14: TRANSPORT INFORMATION

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

- 14.1. UN number: Not applicable.
- 14.2. UN proper shipping name: Not applicable.
- 14.3. Transport hazard class(es): No transport warning sign required.
- 14.4. Packing group: Not applicable.

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14.5. Environmental hazards: Environmentally hazardous substance/marine pollutant. No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15: REGULATORY INFORMATION

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

National regulations EH40/2020 Workplace exposure limits.

EU legislation 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 (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
No specific authorisations are known for this product.

Authorisations (Title VII
Regulation 1907/2006)

Restrictions (Title VIII
Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment Not yet carried out.

16: OTHER INFORMATION

Revision date 09/03/2020

Revision 1

SDS number

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.

Safety Data Sheet: Version 1: Issued March 2020
Conforms to Regulation EC No. 1907/2006 (REACH), Annex II