

PREFASEC® REFRACTORY

1.- MIXTURE AND COMPANY IDENTIFICATION

Product Identifier

PREFASEC® REFRACTORY

SDS Supplier Data

MORTEROS TUDELA VEGUÍN, S.A.

C/ Argüelles, 25

33003 Oviedo, Asturias. España.

Tel.: +34 985 981 100

E-mail: morteros@morteros.masaveu.com

Emergency Telephone No.

Emergencies (24h service): 112

Appropriate Uses Identified for the Mixture

- Mortar specifically designed for placing refractory bricks in barbeques, chimneys, domestic ovens, ...

2.- IDENTIFICATION OF THE DANGERS

Mixture classification.

- Not classified as a dangerous product.

Elements on the label.

- P102: Keep out of reach of children.
- P261: Avoid breathing dust/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352: IF ON SKIN, wash with plenty of soap and water.
- 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 or doctor/physician.
- P501: Dispose of contents/container as the implementing regulations.

Other dangers.

- Does not fulfil the criteria to be classified as PBT or VPVB in accordance with appendix XIII of the REACH Regulation (EC) no. 1907/2006.

3.- COMPOSITION/INFORMATION ON ITS COMPONENTS

- Does not contain dangerous components.

4.- FIRST AID

First Aid Description

- It does not generally require medical assistance.
- If the case giving rise to the exposure continues, evaluate the use of individual protection equipment by the persons providing first aid.
- Call a doctor if there is any doubt or the symptoms persist.
- Never force unconscious persons to ingest anything or make them vomit.

Eye Contact

- Do not rub the eyes to avoid damage to the cornea due to mechanical stress.
- Remove contact lenses if this can be done easily.
- Wash immediately with plenty of water for at least 15 minutes and keeping the eyes open.
- Check with an ophthalmologist.

Inhalation

- Move the victim to a ventilated place.

Skin Contact

- Dust:
 - Brush and wash the skin with soap and water.
- Paste:
 - Remove contaminated clothing.
 - Wash the skin with soap and water.

Ingestion

- Do not force vomiting.
- Rinse the mouth with plenty of water.
- Drink water or milk.

Main Acute and Delayed Symptoms and Effects

- Repeated inhalation of dust of the material in concentrations above the TLV-STEL of the substances contained in the mixture for a long period of time increases the risk of developing lung diseases.
- Prolonged contact of the dust with moist skin and without adequate protection may cause an irritation or contact dermatitis.
- Prolonged contact and without adequate protection with the moist dust may cause serious burns that develop without feeling any pain (alkaline burns).

Medical Attention and Special Treatments to be Provided Immediately

- Provide the safety data sheet to the doctor if medical assistance becomes necessary.

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5.- FIRE FIGHTING MEASURES

Extinguishing Measures

- It does not limit the use of extinguishing agents in the case of a fire.

Specific Dangers Deriving from the Mixture

- Mortar is neither flammable nor explosive, nor does it fuel the combustion of other materials.

Recommendations for Fire Fighting Personnel

- Use the extinguishing measures that are adequate for the local circumstances and the surrounding environment.

6.- MEASURES IN THE CASE OF ACCIDENTAL SPILLS

Personal Precautions, Protection Equipment and Emergency Procedures

For personnel not forming part of the emergency teams

- Avoid breathing in the dust. Use breathing protection in places that are scarcely ventilated and/or with high dust concentration levels.
- Avoid eye and skin contact. Use eye protection glasses, adequate work clothing and waterproof safety gloves.

For emergency personnel

- No emergency procedures or additional measures apart from those provided are required for the rest of the personnel.

Precautions relating to the Environment

- Avoid any penetration into drains or watercourses.

Containment and Cleaning Methods and Material

- Collect using mechanical means avoiding dust from forming.
- Clean the dirty area with plenty of water.
- Eliminate the waste recovered in accordance with the local regulations in force.
- After it sets, the product can be evacuated as an inert waste.

NOTE: The information in this point will supplement that offered in sections 8 and 13.

7.- HANDLING AND STORAGE

Precautions for Safe Handling

- Use in ventilated areas.
- Avoid dust from forming.
- Wash hands and other exposed parts of the body with mild soap and water before eating, drinking or smoking and when leaving the work post. Also remove contaminated clothing and protection equipment.
- Do not eat, drink or smoke in the work areas.
- The effectiveness of the Cr(VI) reducer continues throughout the period of use recommended by the manufacturer, for which reason its limits will be kept below the regulatory limits.

Conditions for Safe Storage

- Store in a properly closed recipient, in a dry and properly ventilated place.
- To prevent any risk of being buried or asphyxia, do not confined spaces such as silos, containers, vats or other recipients used to store or contain mortar without taking the appropriate safety measures. Mortar can accumulate or adhere to the walls in these spaces, with the possibility of becoming loose, collapsing or falling unexpectedly, therefore there being a danger of being buried.

Final Specific Uses

- The recommendations included in this safety data sheet refer to uses such as those indicated in point 1.

8.- PERSONAL EXPOSURE/PROTECTION CONTROLS

Personal Exposure Controls

- Whenever possible, avoid kneeling down on fresh mortar. If it is absolutely necessary, the use of waterproof kneepads will be compulsory.
- Do not eat, drink or smoke during its use.
- Use in ventilated areas and avoid dust from forming.
- Eye protection: use eye protection glasses whenever there is a risk of splattering.
- Skin protection:
 - Hands: when working with aqueous mixtures, use waterproof gloves resistant to abrasions and alkalis. Wash your hands when taking breaks and at the end of work.
 - Body: protective boots and long-sleeved garments, together with additional skin care products to protect it from prolonged contact with mortar paste.

Environmental Exposure Controls

- In accordance with the technology available.

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- Breathing protection: use an anti-dust mask in places with scarce ventilation.

9.- PHYSICAL AND CHEMICAL PROPERTIES

▪ Physical state:	Solid
▪ Colour:	Dark grey/black
▪ Odour:	Odourless
▪ Odour threshold:	N/A
▪ pH (aqueous sol.):	12,0 ± 1,0
▪ Fusion point:	> 1.000°C
▪ Boiling point:	N/A
▪ Evaporation rate:	N/A
▪ Flammability:	Not flammable
▪ Flammability/explosive limits:	N/A
▪ Flammability point:	N/A
▪ Vapour pressure:	N/A
▪ Vapour density:	N/A
▪ Apparent density:	Approximately 1.4 g/cm ³
▪ Solubility:	Slightly soluble in water
▪ n-octanol/water partition coefficient:	N/A
▪ Auto-flammability temperature:	N/A
▪ Decomposition temperature:	N/A
▪ Viscosity:	N/A
▪ Explosive properties:	Not explosive
▪ Combustible properties:	Does not cause or aid the combustion of other substances.

10.- STABILITY AND REACTIVITY

Reactivity

- When mixed with water it sets forming a stable stone-like mass resistant to normal environmental conditions.

Possibility of Dangerous Reactions

- No dangerous reactions are known.

Incompatible Materials

- As it contains cement it is incompatible with: acids, ammonium salts, aluminium or other non-noble metals.

Chemical Stability

- The product is stable in the handling and storage conditions described in section 7.

Conditions to be Avoided

- Avoid its contact with humidity.

Dangerous Decomposition Products

- It does not decompose into dangerous products.

11.- TOXICOLOGICAL INFORMATION

Information on the Toxicological Effects

- Acute skin toxicity: rabbit – 24h contact – 2,000 mg/kg body weight – no mortality.
- Irritation: it doesn't contain dangerous substances, so it doesn't fulfil the criteria to be classified.
- Corrosiveness: no corrosive effects of mortar are known.
- Sensitization: some individuals exposed to fresh mortar paste may develop eczema, caused by the high pH leading to contact dermatitis. The response can appear in several ways, going from a slight eruption to severe dermatitis. However, thanks to the Cr(VI) reducing agent used, no sensitizing effect associated with the aforementioned Cr(VI) within the recommended use period is probable.
- Toxicity due to repeated doses: chronic exposure to breathable dust concentrations above the limit values for professional exposure cause a cough, breathlessness and chronic obstructive pulmonary diseases (COPD).
- Carcinogenicity: no causal relationship established between exposure to mortar and cancer development.
- Mutagenicity: no specific data for mortar are available.
 - Cement: there are no indications.
- Toxicity for reproduction: no specific data for mortar are available.
 - Cement: according to the data available it does not fulfil the criteria for its classification.

12.- ECOLOGICAL INFORMATION

Toxicity

- Once the product has set, no negative effects on the environment are known.

Bioaccumulation Potential

- Irrelevant as it is an inorganic product. The set material is a stable material which fixes its compounds and makes them insoluble.

Persistence and Degradability

- Not biodegradable.

Mobility in Soil

- Irrelevant as it is an inorganic product.

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PBT and VPVB Valuation Results

- N/A

Other Adverse Effects

- Discharging the product into water can lead to a pH increase.

13.- ELIMINATION CONSIDERATIONS

Methods for Waste Treatment

- The product will be eliminated following the local regulations in force on construction waste.
- Do not pour into drains or watercourses.
- Empty containers and packaging can be recycled.
- Containers and packaging with the product will be eliminated in the same manner as the product.

14.- INFORMATION RELATING TO TRANSPORT

- Goods that are not dangerous and not subject to the transport classification and labelling in accordance with the standard United Nations regulations (ADR, RID and ADN), the IMDG (maritime) or the ICAO technical instruction (air).

15.- REGULATORY INFORMATION

Specific Regulations and Legislation for the Mixture regarding Safety, Health and the Environment

- Not subject to registration as it is a mixture in accordance with the REACH Regulations.
- In accordance with the REACH Regulations and Order PRE/1954/2004, the product has a Cr(VI) content lower than 2 ppm in the recommended use period.
- Legal regulations:
 - Regulation (EU) no. 453/2010 of the Commission, of 20th May 2010, modifying Regulation (EC) no. 1907/2006 of the European Parliament and Council, regarding the registration, evaluation, authorisation and restriction of chemical substances and preparations (REACH).
 - Regulation (EC) no. 1272/2008 of the European Parliament and Council, of 16th December 2008, on classification, labelling and packaging of substances and mixtures, and modifying and repealing Directives 67/548/EEC and 1999/45/EEC and modifying Regulation (EC) no. 1907/2006.
 - Regulation (EC) no. 1907/2006 of the European Parliament and Council, regarding the registration, evaluation, authorisation and restriction of chemical substances and preparations (REACH), which creates the European Chemicals Agency, modifying Directive 1999/45/EC and repealing Regulation (EEC) no. 793/93 of the Council and Regulation (EC) no. 1488/94 of the Commission, together with Directive 76/769/EEC of the Council and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.
 - Directive 1999/45/EC of the European Parliament and Council, of 31st May 1999, on approximating the legal, regulatory and administrative provisions of the Member States with regard to the classification, packaging and labelling of dangerous preparations.

16.- OTHER INFORMATION

- These indications are based on the state of our knowledge at the time of drafting the document. This constitutes no guarantee regarding the properties of the product.
- The user is responsible for taking the appropriate protection measures.
- Previous revision: 01/01/2013. Items 2, 11 and 16 has been modified.
- Abbreviations:
 - ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 - ADR European Agreement concerning the International Carriage of Dangerous Goods by Road.
 - SDS Safety Data Sheet.
 - IMDG International Maritime Dangerous Goods Code.
 - VPVB Very Persistent and Very Bioaccumulative.
 - N/A Not Applicable.
 - ICAO Technical Instructions for the Safe Transport of Dangerous Goods by air.
 - PBT Persistent, Bioaccumulative and Toxic.
 - ppm Parts per million.
 - REACH Registration, Evaluation, Authorisation and Restriction of Chemical Substances and Preparations (Regulation (EC) no. 1907/2006).
 - RID Regulation concerning the International Carriage of Dangerous Goods by Rail.
 - TLV-STEL Threshold Limit Value – ShortTime Exposure Limit.
- Precautionary Statements:
 - P102 Keep out of reach of children.
 - P261 Avoid breathing dust/spray.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P302+P352 IF ON SKIN, wash with plenty of soap and water.
 - P305+P351+P338 IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

According to Commission Regulation (EU) n° 453/2010 of 20 May 2010 (OJEU L133 – 31.05.2010)

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- P310 Immediately call a POISON CENTER or doctor/physician.
- P501 Dispose of contents/container as the implementing regulations.