

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS - MSDS

Prepared according to ABNT NBR 14725:2009



Product name: **REBOTEC ADMIX POWDER**

Last revision date: 09/13/2022

1. IDENTIFICATION

Name of substance or mixture (trade name):	Rebotec
Main recommended uses for the substance or mixture:	Powdered additive for waterproofing concrete and mortar
Company Name:	Rebotec Brasil Comércio de Materiais de Construção Ltda
Address:	SC 413, km 90, Vila Nova – Luiz Alves – SC – Brasil – CEP 89128-000
Contact phone:	+55 (47) 3377-0250
Phone for emergencies:	+55 (47) 3377-0250
Email:	rebotec@rebotecbrasil.com.br

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:	Skin corrosion/irritation – Category 2. Serious eye damage/eye irritation – Category 1. Skin Sensitization – Category 1B. Specific target organ toxicity – Single exposure – Category 3.
Appropriate labeling elements Pictograms	 
word of warning	Danger
Danger Phrases	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H335: May cause respiratory irritation.
Precautionary Phrases	
General	P102 Keep out of reach of children. P103: Read the label before using the product.
Prevention	P280: Wear eye protection / face protection. P261: Avoid breathing dust.
Emergency Response	P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. If you wear contact lenses, remove them if that's easy. Keep rinsing. Immediately contact a physician. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

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	P304+P340+P312: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, contact a doctor.
Storage	P410 + P403: Protect from sunlight. Store in a well-ventilated place.
Disposition	P501: Dispose of the packaging in an environmentally suitable place.
Other Hazards that do not result in a classification	The product has no other hazards
Classification system used	Standard ABNT NBR 14725:2009. GHS – Globally Harmonized System for the Classification and Labeling of Chemicals

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Type: Blend / Mixture

Ingredients or impurities contributing to the hazard:

Common chemical name or technical name	Nº CAS	Concentration or concentration range (%)
Portland Cement	65-997-1	10 – 30

4. FIRST AID ACTIONS

Inhalation:	Remove the person to a ventilated place and keep him at rest in a position that does not impede breathing. If you feel unwell, contact a doctor.
Skin contact:	Wash with plenty of soap and water. In case of irritation or rash, consult a doctor.
Eye contact:	Rinse carefully with water for a few minutes. If contact lenses are present, remove them if possible. Keep rinsing. Immediately contact a physician.
Ingestion:	Rinse your mouth. Do not induce vomiting. If you feel unwell, contact a doctor.
Notes to doctor:	Take this MSDS. There is no specific antidote, treatment should be based on symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Compatible with foam or chemical powder.
Unsuitable extinguishing media:	Do not directly use water or carbon dioxide.

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Hazards specific to the substance or mixture	The cement in this product can slowly react with water to form hydrated compounds, releasing heat and producing a highly alkaline solution.
Protective measures for the firefighting team:	Use personal protective equipment, especially respiratory protective equipment.

6. CONTROL MEASURES FOR SPILLING OR LEAKING

For non-emergency personnel	Do not smoke near the emergency room. Avoid exposure to the product. If it is necessary to get close, use full PPE as described in section 8.
For emergency service personnel	Use complete PPE: safety glasses with side protection, safety gloves, respiratory protection mask with dust filter, suitable protective clothing, apron and safety shoes. Isolate spilled material from sources of ignition. In case of fire, wear suitable respiratory equipment and clothing.
Environmental Precautions:	If possible, do not allow contact with rivers or water bodies. If there is environmental contamination, alert the competent authorities.
Methods and materials for sealing and containment:	
Area isolation:	Isolate the area while performing the cleanup procedure.
Methods and materials for cleaning:	Avoid dust formation. If available, use a vacuum or suction cup or a clean shovel. Deposit the material in properly identified containers.

7. HANDLING AND STORAGE

Prevention of worker exposure:	Use full PPE as described in section 8.
Fire and explosion prevention:	The product is not expected to present a fire or explosion hazard.
Precautions and guidelines for safe handling:	Handle in a ventilated area or with a general local exhaust/ventilation system. Avoid dust formation. Avoid exposure to the product. Avoid contact with incompatible materials. Use personal protective equipment as described in section 8.
Hygiene Measures	Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet. Contaminated clothing must be changed and laundered before reuse. Remove

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	contaminated clothing and protective equipment before entering eating areas.
Safe Storage Conditions	
Suitable conditions:	Store in well-ventilated, dry places, protected from moisture and direct sunlight. Keep containers tightly closed.
Conditions to avoid, including any incompatibilities:	Incompatible with acid materials, which may react intensely. Avoid contact with water and humidity.
packaging materials	Plastic or paper. avoid aluminum
Other information:	Not available

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational exposure limits	Total dust - 15 mg/m ³ Limit value (8 hours): 1 mg/m ³ (alveolar fraction) Maximum exposure value: 5 mg/m ³
biological indicators	Not available
Engineering control measures:	Promote mechanical ventilation and direct exhaust system to the outside environment. Maintain atmospheric concentrations of product constituents below the indicated occupational exposure limits. It is recommended to have emergency showers and eye wash facilities in the work area.
eye protection	Safety glasses with side shields or face shield.
Body and skin protection	Closed shoes and full body protective gear.
Breath protection	It is recommended to use a respiratory protection mask with a dust filter.
hand protection	Protective gloves of any waterproof material available.
thermal hazards	Must not present thermal hazards

9. PHYSICAL AND CHEMICAL PROPERTIES

Aspect	
Physical state/shape:	solid / powder
Color:	Gray
Odor:	Characteristic odor of cement
Odor Threshold:	Not applicable
Molecular weight:	Not available.
pH:	9 - 11
Melting point/freezing point:	Not available.
Initial boiling point and boiling temperature range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not applicable.

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Flammability (solid; gas):	Non flammable
Lower/upper limit of flammability or explosiveness:	Not applicable.
Steam pressure:	Not available.
Vapor Density:	Not available.
Relative density:	1.68 g/cm ³
Solubility(ies):	Insoluble
Partition coefficient – n-octanol/water:	Not available.
Autoignition temperature:	Not applicable.
Decomposition temperature:	Not available.
Viscosity:	Not available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable product under normal conditions of temperature and pressure. When mixed with water, it forms a stable mass which, once hardened, does not react in normal environments.
Reactivity:	Stable product.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Avoid moisture during storage.
incompatible materials	Water, acids, aluminum metals and ammonium salts
Hazardous decomposition products	Water, acids, aluminum metals and ammonium salts

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified as a hazard
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness. Repeated or prolonged contact with dust can trigger eczema.
Serious eye damage/eye irritation:	Causes serious eye damage with burning, pain, tearing and possibility of irreversible damage. Repeated or prolonged exposure may cause eye ulceration.
Respiratory or skin sensitization:	May cause allergic skin reactions with dermatitis and itching. The product is not expected to cause respiratory sensitization
Germ cell mutagenicity:	The product is not expected to show mutagenicity in germ cells.
Carcinogenicity:	The product is not expected to be carcinogenic.
Reproductive toxicity:	The product is not expected to exhibit reproductive toxicity.
Specific target organ toxicity - single exposure:	May cause irritation of the respiratory tract with coughing, sneezing, dyspnea and wheezing. Ingestion may cause abdominal pain, a burning

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	sensation in the stomach, nausea and vomiting. Inhalation of dust may cause decreased lung function.
Specific target organ toxicity - repeated exposure:	The product is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	Causes respiratory irritation
Information about the symptoms of toxicological effects:	Exposure to dust can cause irritation of the respiratory tract. If prolonged, it can cause chest pain, coughing and lung damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Unclassified.
Persistence and degradability	inert mineral product
Bioaccumulative Potential	None
Soil Mobility	None
Other adverse effects	Causes an increase in the alkalinity of watercourses and soil

13. FINAL DESTINATION CONSIDERATIONS

Product	It must be disposed of as hazardous waste in accordance with local legislation. Due to the presence of Portland cement, never dispose of powdered product. Add water and wait for it to harden. The hardened material must be disposed of as Class A waste (according to CONAMA Resolution 307:2002). Federal, state and municipal legislation should be consulted, including: Law No. 12,305, of August 2, 2010 (National Policy on Solid Waste).
Product leftovers	Can be saved for reuse. For this, keep the remains of the product in their original packaging and duly closed so that there is no blockage. Pay attention to the expiry date of the product before using it. Disposal of the remaining product must be carried out as established for the product (addition of water and hardening before disposal).
Used packaging	Do not reuse empty packaging. These may contain product remains and must be kept closed and sent for recycling and/or disposed of as Class B waste (according to CONAMA Resolution 307:2002).

14. TRANSPORT INFORMATION

National and international regulations	
Terrestrial	ANTT Resolution No. 5,947, of 06/01/2021;
UN No.	Not available.

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Proper shipping name	Rebotec
Main risk class/subclass	Not classified as dangerous by ANTT Resolution No. 5.947, of 06/01/2021;
subsidiary risk	Not available.
No. of risk	Not available.
Packing group	Not available.
technical name	Rebotec
Danger to the environment	Not available.

15. REGULATORY INFORMATION

ANTT Resolution No. 5,947, of 06/01/2021; Decree No. 2657, of 07/03/1998; SIT Ordinance No. 229, of 05/27/2011; Ordinance No. 3,214, of 06/08/1978.

16. OTHER INFORMATION

This MSDS was prepared based on current knowledge about the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, are the responsibility of the user. It is warned that the handling of any chemical substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company using the product to promote the training of its employees regarding the possible risks arising from exposure to the chemical product.

Captions and abbreviations

ABNT - Brazilian Association of Technical Standards

ANTT - National Land Transport Agency

CAS - Chemical Abstracts Service

References:

ABNT NBR 14,725:2009 (Parts 1, 2, 3 and 4).