

| | | |
|---|---|--|
|  | MSDS MATERIAL SAFETY DATA SHEET FOR CHEMICAL PRODUCT | Product: BASE COAT Elaboration: 28/MAY/2016 Last review: JUL/2016 Page 1/6 |
|---|---|--|

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Construcril BASE COAT
Company Name: Construcril Indústria e Comércio Ltda
Address: 233, Sargento Antonio Vieira Noia, street – Cidade Saúde Itapevi – Sp – CEP: 06693-080
Phone/ Fax: (11) 4141-8203
Website: www.construcril.com.br **Email:** construcril@construcril.com.br

2 COMPOSITION AND INFORMATION ON INGREDIENTS

Product type: Mixture
Chemical nature: Cement and Special Additives
Ingredients or impurities that contribute to hazard: confidential information, the hazards associated with these ingredients are described throughout the document.

3 HAZARDS IDENTIFICATION

Non flammable product.
Product contains no hazardous material.
Handling in accordance with proper hygiene and safety practices.
Like every product should not be handled by people who have not been properly trained and oriented.

4 FIRST AID MEASURES

Inhalation:
In the event of symptoms, move the person immediately from the site of exposure, leading him/her to a ventilated area. If the person is not breathing, cardiopulmonary resuscitation must be used (mouth-to-mouth resuscitation). Seek immediate medical help.

Contact with skin:
Remove contaminated clothes; wash the affected area with plenty of water and soap. Seek for medical care in case of irritation or other symptoms.

Contact with eyes:
Wash the eyes with plenty of water for at least 15 minutes while holding the eyelids open. Seek medical help immediately.

Ingestion:
Do not induce vomiting. If the victim is unconscious and vomiting occur spontaneously, lay down the victim aside and keep him/her resting. Seek immediate medical help.

First aid attendant protection:
Avoid contact with the product while helping the victim.

5**PREVENTIVE MEASURES AND FIRE FIGHTING****Appropriate extinguishing media;**

Product is not flammable. In case of fire: Use for extinction: foam, dry chemical and carbon dioxide (Co₂).

Not recommended extinguishing tactics:

Avoid using: any form of water.

Specific hazards relating to measures:

Dangerous when exposed to water. The cement present in this product can react slowly with water to form hydrated compounds, releasing heat and producing an alkaline solution.

Special methods of fire fighting:

Special methods of fire fighting are not known.

Protection of persons involved in the fire fighting:

Self-Contained Breathing Apparatus (SCBA) with positive pressure and full protective clothing.

Specific hazards of chemical combustion

Chemical product combustion or its packaging can form irritating and toxic gases such as carbon monoxide and carbon dioxide.

Firefighters protection:

Use appropriate personal protection and a self-contained breathing apparatus preferably.

6**CONTROL MEASURES FOR SPILLAGE / LEAKAGE****Personal precautions:**

Removal of ignition sources: Non-flammable product, no need for special care.

Dust control: Use ventilation or exhaust system or other appropriate procedure.

Prevention against inhalation, contact with skin, eyes and mucous membranes: Do not touch damaged containers or spilled material without the use of appropriate clothing.

Ventilate the place, avoid contact with the skin, mucous membranes and eyes.

Use the recommended personal protective equipment.

Environmental Precautions:

Prevent the product from getting in contact with the soil and/or water bodies.

Alarm systems:

In case of water contamination, notify to the competent authorities.

Cleaning method:

Remove the product using vacuum systems or other method that does not generate dust.

Put the material in suitable containers and remove them.

Prevention against secondary hazards:

Packaging must not be reused and its disposal or recycling must be in compliance with the local regulations in force.

7**HANDLING AND STORAGE****Handling:**

Technical measures

Prevention against worker exposure: Handle the product in a well-ventilated area with appropriate personal protective equipment (see section 8). Avoid formation of dust. Avoid contact with incompatible materials.

After using the product, wash your hands thoroughly before you ingest food or perform physiological needs.

Prevention against fire and explosion: Does not require special care for not being flammable or explosive.

Precautions for safe handling: Obtain special instructions before use. Do not handle the product before having read and understood all safety precautions. Avoid contact with the product. Use protective gloves, protective clothing, eye protection and facial protection, as indicated in section 8.

Guidelines for safe handling:

- Handle in cool, airy place.
- Do not reuse packaging.
- Do not smoke, eat or drink while handling the product.

Storage:

Appropriate technical measures: Keep the packaging in a ventilated area and protected from the intense cold, heat and humidity. Do not store near food. Keep out of the reach of children or animals

Storage conditions

Appropriate: Covered, fresh, dry and ventilated areas.

Do not store with corrosive and/or toxic products, organic peroxides, spontaneous combustion and radioactive materials.

Safe materials for packaging

Recommended: Plastic or cardboard containers.

Inadequate: inappropriate materials for packaging are not known.

8**EXPOSURE CONTROL AND PERSONAL PROTECTION****Engineering control measures:**

The environment in which the product is to be applied should be well ventilated, keeping doors and windows open for air circulation. Closed rooms must be equipped with exhaust systems. If natural or forced ventilation is not possible, use respiratory mask with filter.

Personal protective equipment:

Respiratory Protection: It is recommended to use respiratory protective equipment with dust filter. In cases where exposure exceeds 3 times the TLVTWA value, use the Self-Contained Breathing Apparatus (SCBA) with air supply, full-face piece, operated in positive pressure mode. Follow the instructions of Respiratory Prevention Program (PPR), 3rd ed. São Paulo: Fundacentro, 2002..

Eye protection: Wear safety glasses with side protection.

Skin and body protection: Protective gloves, safety shoes, apron and safety clothing for protection of the whole body against chemicals.

9**PHYSICAL AND CHEMICAL PROPERTIES**

Aspect: Grayish powder.

Odor: Characteristic of cement.

pH: Not available.

Melting point/freezing point: Not available.

Initial boiling point and boiling temperature range: Not available.

Flash point: Does not apply, non-flammable product.

Evaporation rate: Not available.

Flammability: Non-flammable.

Lower/upper limit of flammability or explosive limit: Not applicable, product is not explosive.

Vapour pressure: Not available.

Vapour density: Not available.

Density: 1,35 – 1,85 g/cm³

Solubility: Not available.

Partition coefficient - n-octanol/water: Not determined.

Auto-ignition temperature: Does not apply.

Viscosity: Not available.

10**STABILITY AND REACTIVITY**

Stability: In normal conditions of temperature and pressure the product is stable and does not undergo polymerization.

Reactivity: The product contains an ingredient which slowly reacts with water, releasing heat and forming an alkaline solution.

Hazardous reactions: No hazardous reactions are known with this product.

Conditions to avoid: Contact with incompatible materials.

Incompatible materials or substances: Water, strong acids and oxidizing materials.

Hazardous decomposition products: During decomposition it emits carbon dioxide monoxide.

11**TOXICOLOGICAL INFORMATION****Exposure effects:**

Acute toxicity: Product intake can cause abdominal pain, burning sensation in the stomach, nausea and vomiting. The ingestion of large amounts can cause intestinal problems and possible formation of solid aggregate in the stomach and intestine. Based on the information and concentrations of the ingredients, the product is not classified as acute toxic.

Corrosion/irritation to skin: Causes irritation to skin. The contact can cause irritation with redness, painfulness and dryness of the skin.

Serious eye damage/eye irritation: Eye contact can cause severe irritation with redness, pain, severe deep burns and possible damage to the eyes. Long-term exposure can cause chemical burns or ulceration of the eyes. Respiratory or skin sensitization: it may cause allergic reactions in the skin with dermatitis, dryness and redness. Repeated contact with the powder can cause eczema.

Aspiration hazard: This product is not expected to present an aspiration hazard.

Specific target organ toxicity – single exposure: Based on the ingredient concentration, the product is not expected to present specific target organ toxicity through single exposure. However, exposure to dusts can cause respiratory irritation with coughing, dyspnea (breathing difficulty) and wheezing.

Specific target organ toxicity – repeated exposures: The inhalation of large quantities of product dust causes damage to the lungs by repeated or prolonged exposure. Information concerning: Hydrated lime HL - I: repeated or prolonged inhalation may cause damage to the lungs with bronchitis and/or pneumonitis.

12**ECOLOGICAL INFORMATION**

Environmental effects, behavior and product impacts:

Ecotoxicity: Product not hazardous to aquatic life.

Persistence and degradability: Rapid degradation and low persistence are expected. Potential

Bioaccumulative: Low bioaccumulative potential is expected in aquatic organisms.

Mobility in soil: Rapid mobility in soil is expected.

Other Adverse Effects: No other environmental damage known to this product..

13**CONSIDERATIONS ON TREATMENT AND DISPOSAL****Treatment and disposal methods**

Product: Must be disposed as hazardous waste in accordance with local regulations. Treatment and disposal must be specifically assessed for each product. Federal, State and municipal laws should be consulted, including these: CONAMA Resolution 005/1993, ABNT-NBR 10.004/2004 and ABNT-NBR 16275.

Products waste: Keep the product waste in its original packaging and properly closed. The disposal must be carried out as established for the product.

Used Packaging: The packaging must not be reused. They may contain remains of the product, shall be kept closed and forwarded to appropriate disposal, as established for the product.

14**TRANSPORT INFORMATION****National and international regulations****Terrestrial:**

Resolution no. 420 dated February, 12th, 2004 of the National Land Transportation Agency (ANTT - Agência Nacional de Transportes Terrestres) which approves the Complementary Instructions to the Regulation of Land Transport of Dangerous Goods and its modifications. UN number: Not classified as dangerous for land transport.



MSDS

MATERIAL SAFETY DATA SHEET
FOR CHEMICAL PRODUCT

Product: **BASE COAT**
Elaboration: **28/MAY/2016**
Last review: **JUL/2016**
Page 6/6

Maritime:

DPC-Directorate of ports and coasts (transport in Brazilian waters). Brazilian Maritime Standards (NORMAM - Normas de Autoridade Marítima). NORMAM 01/DPC: Vessels Employed in Open Sea Navigation. NORMAM 02/DPC: Vessels employed in Inland Navigation. IMO – “International Maritime Organization”. International Maritime Dangerous Goods Code (IMDG Code). UN number: Not classified as dangerous for maritime transport.

Air:

ANAC (Agência Nacional de Aviação Civil) - National Civil Aviation Agency – Resolution no. 129 dated December 8th, 2009. RBAC No. 175 – (BRAZILIAN CIVIL AVIATION REGULATION – REGULAMENTO BRASILEIRO DA AVIAÇÃO CIVIL) - TRANSPORT OF DANGEROUS GOODS IN CIVIL AIRCRAFTS. IS No. 175- 001 – SUPPLEMENTARY-INSTRUCTION ICAO – “International Civil Aviation Organization” – Doc 9284- NA/905 IATA - “International Air Transport Association” Dangerous Goods Regulation (DGR). UN number: Not classified as dangerous for air transport.

15

REGULATION

Specific regulations for chemicals:

Federal Decree no. 2.657, dated July 3rd, 1998. ABNT-NBR Standard 14725:2009. Law no.12.305, dated August 2nd, 2010 (National Policy on Solid Waste). Decree no. 7.404, dated December 23rd, 2010.

16

OTHER INFORMATION

Note: The information contained herein is based on current experiences and knowledge and provides information about the protection, safety, health and the environment. It's important to warn that the handling of any chemical substance requires prior knowledge of its dangers by the user. It is up to the company which is using the product to promote the training of its employees and contractors regarding the possible risks arising from the product. The data contained herein may be changed without prior notice.