

Product name POWDER PAINT POLITHERM 20 R ME GRAY Code 10004882  
30950 BR  
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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : POWDER PAINT POLITHERM 20 R ME GRAY 30950 BR  
Code : 10004882  
Main recommended uses : Electrostatic powder paint for surface coating.  
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CEP 89270-000, Guaramirim - SC  
  
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## 2. HAZARD IDENTIFICATION

The product does not require classification according to the GHS criteria.

**Other hazard** : Can cause allergic reactions on the skin.  
The finely dispersed particles form explosive mixtures in air, in the presence of sparks. Burning forms a thick black smoke. Inhalation of dangerous products of decomposition may cause serious damage to health.

## 3. COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS

**Product type:** : Mixture

#### 4. FIRST AID MEASURES

- Inhalation** : Take the victim to fresh air, keeping them rested and warm. If breathing is irregular or has stopped, apply artificial respiration. Do not give anything orally. Seek medical assistance immediately, bringing the product label whenever possible.
- Contact with the skin** : Remove all contaminated clothing immediately. Rinse skin with water / take a shower.
- Contact with the eyes** : Remove contact lenses, if wearing any. Flush the eyes with running water for at least 15 minutes, holding the eyelids apart. Seek medical assistance immediately, bringing the product label with you.
- Ingestion** : Do not provoke vomiting. Consult with a doctor immediately.
- Most important symptoms and effects, both acute and delayed** : Headaches, dizziness, fatigue and in extreme cases, loss of consciousness.
- Notes for the doctor** : Treat symptomatically. Do not induce vomiting because of risk of aspiration of gastric contents into the lungs. Gastric lavage is recommended when the patient ingests large quantities of the substance.

#### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing methods** : Water in mist form  
Carbon dioxide (CO<sub>2</sub>)  
Foam alcohol resistant  
Dry chemical powder
- Extinguishing methods not recommended** : Water jet
- Specific dangers** : The finely dispersed particles form explosive mixtures in air, in the presence of sparks. Burning forms a thick black smoke. Inhalation of dangerous products of decomposition may cause serious damage to health.
- Protective measures of the fire fighting team.** : It may be necessary to use gas masks.
- Specific methods** : Cool closed containers in the vicinity of the fire with water. Resultant waste fluid from fire fighting must be stopped from entering drains or waterways. Evacuate the area and fight fire from a safe distance. Use dikes to contain the water used in the fire-fight and dispose it according to local legislation. Use water in mist form to cool the containers exposed to fire. In case of intense fire in the storage area, use hoses handled at distance.

## 6. SPILL / LEAK CONTROL PROCEDURES

### Personal precautions, protective equipment and emergency procedures

**For the emergency service staff** : If specialized clothing is needed to combat the leak/spillage, Section 8 should be consulted. All precautions described in the previous section must be followed.

**For staff who are not part of the emergency services** : No action should be taken that may generate danger to people without adequate training and qualifications. Use appropriate personal protective equipment - see section 8. Evacuate surrounding areas. Isolate area and keep onlookers away. Do not touch or walk through spilled material. Eliminate all sources of ignition. Avoid breathing vapor or mist. Provide adequate ventilation if possible. Wear appropriate respiratory mask when ventilation is inadequate. In accordance with characteristics of the location and/or area and in relation to the amount of spilled/leaked product, additional emergency measures may be taken under the supervision of a trained professional.

**Environmental precautions** : Prevent spilled/leaked product from contact with soil, waterways, drains and sewers. Inform the relevant authorities in accordance with current legislation if the product causes environmental damage.

### Methods and materials for containment and cleaning

**Large spills / leaks** : Stop the leak if this can be done safely. Prevent from entering holes / depressions in the floor. Cover up spillage in a tarp to prevent the spread by wind or rain. Use antifaiscantes tools and explosion-proof equipment properly grounded to collect the product. Place the material collected in dry, clean and properly identified containers. Cap the container loosened so removing them from the spill site. Avoid formation of dust. Remove the packaging from the spill site. If there is product disposal need refer to chapter 13

**Small spills / leaks** : The collected material can return to the process if you are in favorable conditions. Otherwise should be referred for appropriate disposal.

**Dust control** : Consult section 13.

## 7. HANDLING AND STORAGE



## 8. EXPOSURE CONTROL – PERSONAL PROTECTION

The information in this chapter contain general guidelines. Chapter 1 should be consulted for any information on the recommended use of this product in different scenarios of exposure.

### Engineering control measures

- : Adequate ventilation of machinery is required, maintaining the concentration below the recommended limits of tolerance (L.T.) of the ACGIH- American Conference of Governmental Industrial Hygienists:
- Tolerance limit for breathable particles: 3 mg/m<sup>3</sup>
  - Tolerance limit for inhalable particles: 10 mg/m<sup>3</sup>

### Control parameters

### Occupational Exposure Limits

### Personal protective equipment required

#### Respiratory protection

- : If the powder is above the tolerance limits (see engineering control measures, above) a dust mask must be used, suitable for this purpose (P2 particle filter). Occasionally other respiratory protective equipment may be used.

#### Hand protection

- : Protective creams can be used to protect exposed skin areas together with latex or nitrile gloves (never used after the exposure has occurred).

#### Eye protection

- : Use hermetic goggles to protect against powder spray.

#### Body and skin protection

- : Antistatic clothes and shoes are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : Dust

**State of matter** : Solid

**Color** : Gray

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<b>Odour</b>	: Weak and distinctive
<b>Odour limit</b>	: Not applicable
<b>pH</b>	: Not applicable
<b>Melting point</b>	: Not applicable
<b>Boiling point</b>	: Not applicable
<b>Evaporation rate</b>	: Not applicable
<b>Inflammation point</b>	: Method: Not applicable
<b>Upper explosive limit</b>	: 70 mg/m <sup>3</sup>
<b>Lower explosive limit</b>	: 40 mg/m <sup>3</sup>
<b>Vapor pressure</b>	: Not applicable
<b>Density</b>	: 1,38 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	: Insoluble in water, partially soluble in some solvents and thinners oxygen as acetone , ethyl acetate , methyl ethyl ketone, among others.
<b>N-octano /water partition coefficient</b>	: Not applicable
<b>Auto flammability</b>	: 400 °C
<b>Cinematic viscosity</b>	: Not applicable

## 10. STABILITY AND REACTIVITY

<b>Possibility of dangerous reactions</b>	: Presents no reactivity at room temperature and under normal conditions of use. None when the product is stored, applied and processed correctly. Otherwise, the mixture powder air mixture could ignite.
<b>Need to add additives and inhibitors</b>	: Not necessary.
<b>Conditions to avoid</b>	: Extreme heat and open flame.
<b>Incompatible materials</b>	: Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.
<b>Dangerous products of</b>	: High temperatures (above 300°C) could result in dangerous



**Used packaging** : Clean packaging should be sent for recycling. Packaging with class II waste should be disposed of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations

## 14. TRANSPORTATION INFORMATION

### National and international regulations

Land : Not classified as a dangerous good under transport regulations.

Shipping : Not classified as a dangerous good under transport regulations.

Air transport : Not classified as a dangerous good under transport regulations.

## 15. REGULATORY INFORMATION

This MSDS (Material Safety Data Sheet) was generated according to the criteria of NBR 14725 (Brazilian standard that defines the GHS).

## 16. ADDITIONAL INFORMATION

### Acronyms Used:

#### Legenda:

<b>CAS</b>	Chemical Abstract Service
<b>VO</b>	Organic Vapors
<b>NEC</b>	National Electrical code/Código Nacional de Eletricidade
<b>IEC:</b>	International Electrical Commission
<b>ABNT</b>	Brazilian Association of Technical Standards
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>TLV</b>	Threshold Limit Values
<b>TLV/TWA</b>	Time Weighted Average
<b>TLV/STEL</b>	Short Term Exposure Limit
<b>TLC/C:</b>	Tolerance Limit - Ceiling Value
<b>EPI:</b>	Individual Protective Equipment



## MATERIAL SAFETY DATA SHEET - MSDS

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<b>CA</b>	Approval Certificate
<b>PPRA</b>	Environmental Risk Prevention Program
<b>NR</b>	Regulatory Standard
<b>NFPA</b>	National Fire Protection Agency
<b>mmHg</b>	Millimeters of mercury - pressure unit
<b>DL50</b>	Lethal Dose average
<b>CL50</b>	Lethal Concentration average
<b>ppm</b>	Parts per million
<b>N.d</b>	Not available

Vertical lines in the left hand margin indicate changes from the current version

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