

Product name POWDER PAINT POLITHERM 20 R SM Code 10005143
BROWN WP-4635C BR
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : POWDER PAINT POLITHERM 20 R SM BROWN WP-4635C BR
Code : 10005143
Main recommended uses : Electrostatic powder paint for surface coating.
Address : Rodovia BR 280 - km 50
CEP 89270-000, Guaramirim - SC
Telephone : +55 47 3276-4000
Emergency telephone number : +55 47 3276-4000
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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 (CO₂)
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

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**Precautions for safe handling**

Instructions for safe treatment : Avoid contact with eyes, skin and clothes. Do not handle the product before reading and understanding all safety precautions. Do not re-use packaging. Refer to special instructions before use. Avoid inhalation of the powder. Do not eat, drink or smoke during use.

Precautions for safe handling : Use individual protective equipment. Environments and areas that will be used for electrostatic spraying of powder paints must provide controlled ventilation. Through controlled ventilation it must be ensured that the air in the inhalation scope is healthy from a health point of view (see limits in Section 8). Avoid sources of ignition and dust deposition in the environment. Antistatic clothes and shoes are recommended. Emergency showers and eye wash basins must be installed in locations of use and storage.

Fire protection : Tools that do not produce sparks should be used. Keep away from heat and sources of ignition. Do not smoke. Avoid accumulation of electrostatic charges. All conductive elements of the system, in contact with the product, must be electrically grounded. Only use in well-ventilated locations, to prevent accumulation of powder in explosive concentrations.

Storage conditions

Substances to be avoided : Keep away from oxidising agents, strong acid solutions and strong alkaline solutions.

Storage conditions : The electrical installation must comply with NEC (National Electrical Code) or IEC (International Electrical Commission) standards and/or those of the ABNT (Brazilian Association of Technical Standards). The floor of the storage area must be impermeable, non-combustible and must have ditches that allow run off into the containment reservoir. Storage tanks must be surrounded by embankments and have drains in case of leakage.

Appropriate storage conditions : Store the material in covered, dry, well ventilated and identified areas. Store at a temperature below 30°C. Store in a closed container. Keep out of direct sunlight.

Inappropriate storage conditions : Exposed to elevated temperatures, sun and rain. Close to oxidizing agents. Close to food. Close to sources of heat and ignition.

Materials to avoid : Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.

Secure packaging materials

Recommended packaging materials : Must be stored in plastic bags packed in cardboard boxes.

Packaging materials to be avoided : Glass containers.

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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/m³
 - Tolerance limit for inhalable particles: 10 mg/m³

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 : Brown

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Odour	: Weak and distinctive
Odour limit	: Not applicable
pH	: Not applicable
Melting point	: Not applicable
Boiling point	: Not applicable
Evaporation rate	: Not applicable
Inflammation point	: Method: Not applicable
Upper explosive limit	: 70 mg/m ³
Lower explosive limit	: 40 mg/m ³
Vapor pressure	: Not applicable
Density	: 1,59 g/cm ³
Solubility(ies)	: Insoluble in water, partially soluble in some solvents and thinners oxygen as acetone , ethyl acetate , methyl ethyl ketone, among others.
N-octano /water partition coefficient	: Not applicable
Auto flammability	: 400 °C
Cinematic viscosity	: Not applicable

10. STABILITY AND REACTIVITY

Possibility of dangerous reactions	: 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.
Need to add additives and inhibitors	: Not necessary.
Conditions to avoid	: Extreme heat and open flame.
Incompatible materials	: Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.
Dangerous products of	: High temperatures (above 300°C) could result in dangerous

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decomposition products of decomposition, such as carbon dioxide and smoke.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Powder coatings are generally inert dusts . No data are available on acute toxicity for the product. Powder coatings can cause irritation located in the skin , especially in skin folds or use of tight clothes . People allergic or respiratory problems should not work in the powder application. Repeated or prolonged contact with the product may cause removal of natural fat from the skin , resulting in non allergic contact dermatitis and skin absorption . The product that comes into contact with the eyes can cause irritation.

Chronic toxicity

On the skin , prolonged contact leads to degreasing , may cause fissures , dryness , dermatitis and eczema. The respiratory system may be affected by chronic bronchitis and decreased respiratory volume. Exposure of pregnant women to concentrations above the limit can present threat of abortion. In contact with eyes, do not rub , wash with running water for at the least 15 minutes.

12. ECOLOGICAL INFORMATION

Stability in soil : Data not available.

Elimination of chemical physical ability : Not considered potentially bioaccumulative.

Other toxicological observations : Data not available.

Ecotoxicity : Detrimental to the flora.
 Detrimental to the fauna
 Contaminates the ground water.

13. DIOSPOSAL AND TREATMENT CONSIDERATIONS

Recommended methods for final disposal

Product : Class II Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations.

Waste : Class II Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations.

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:

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

MATERIAL SAFETY DATA SHEET - MSDS

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

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

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