

CEE – Safety data sheet

Safety data sheet in accordance with directive 91/155/CEE

Article name

- **Polyurethane powder coating**

- Article code: SERIE 500

Release 3

Revisione Date 15/06/07

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- Article name: Polyurethane powder coating
- Codice: **DS 5XX**
- Address: **Decoral System S.r.l.**
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2. DANGER IDENTIFICATION

The chemical compound can be considered , considering its composition as inert powder, not classified according to Dispositions 67/548/CEE. 99/45/CE and subsequents.

3. COMPOSITION/INFORMATIONS ON COMPONENTS

The chemical compound is not a dangerous classified substance for the health according to D.M. n. 52 dated 3-2-97.

4. FIRST AID MEASURES

- General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

- Inhalation:

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.

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-Eye contact:

Flush copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

-Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. DO NOT use solvents or thinners.

-Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. FIRE-FIGHTING MEASURES**-Extinguishing media. Recommended:**

alcohol resistant foam, CO₂, - blanket, water spray/mist.

Not to be used:

high pressure gas inert (e.g. CO₂), water jets.

Recommendations:

Fire will produce black dense smoke. Exposure to decomposition products may cause health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to the fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude the sources of ignition and ventilate the area. Avoid breathing dust. Refer to the protective measures listed in sections 7 and 8. Contain and collect spillage with electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).

Do not use a dry brush as dust clouds can be created. Do not allow to enter drains or watercourses.

If the product contaminates lakes, rivers or sewage inform appropriate authorities in accordance with local regulations.

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7. HANDLING AND STORAGE

Persons suffering from respiratory problems or allergic response should not be exposed to , or handle, powder coatings.

- Handling

Precautions should be taken to prevent the formation of dust in concentrations above flammable, explosive or occupational exposure limits.

Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or ignition sources.

Preparation may charge electrostatically : always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of conducting type.

Keep containers tightly closed. (Use nosparking tools. Avoid contact with the skin and the eyes. DON'T breathe vapour aerosols.)

Smoking, eating and drinking should be forbidden in application area.

Don't use pressure to empty the containers.

Keep always the product in original container.

For personal protection see section 8.

- Storage

Observe label precautions. Store at temperature < 35°C in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Containers which are opened must be carefully resealed.

8. Exposure controls/personal protection**- Engineering measures**

Avoid inhalation of dust. (Work places must be adequately aired.) Where reasonably practicable this should be achieved by the use of local exhaust extraction and good general ventilation. If these are not sufficient to maintain exposure to dust below the exposure limits, suitable respiratory protection must be worn.

Threshold of professional exposure:

fine powder TLV-TWA: < 10 mg/m³ (CEPE 1990)

- Personal protection

Respiratory protection.

When workers are facing dust concentrations above the exposure limits they must use appropriate certified respirators being effective against this type of material.

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- Hand protection.

For prolonged or repeated contact use barrier cream or suitable gloves.

- Eye protection.

Safety eyewear should be used when there is a likelihood of exposure.

- Skin protection.

Personnel should wear protective clothing and all parts of the body should be washed after contact. Care should be taken in the selection of protective clothing, to ensure that inflammation and irritation of the skin at neck and wrist through contact with the powder is avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Test method
- Physical state : fine powder	
- Real density, 23°C : 1,2-1,8 g/cm³	Picnometer for solid
- Bulk density : 400-1000 Kg/m³	
- Lower explosion limit of mixture dust/air : 35/50 g/m³ (recommended value for powder in air for plant design : not to exceed 10 g/m ³)	ISO 8130/4
- Solubility in water : Insoluble	
- Softening point : >50°C	hot plate
- Ignition temperature of a dust/air mixture : 450-650°C	

10. STABILITY AND REACTIVITY

- Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures hazardous decomposition products may be produced, such a carbon monoxide and dioxide, nitrogen oxides and smoke.

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11. TOXICOLOGICAL INFORMATION

- There are no data available on the preparation itself.

Animal tests and long term use of powder coatings containing no dangerous substances have shown no specific risk.

Powder coatings can cause localised skin irritation in folds of the skin or in contact with tight clothing.

12. ECOLOGICAL INFORMATION

- Other ecological information.

Observations

The product is no water-soluble.

Don't waste in the environment.

13. DISPOSAL CONSIDERATION

- Do not allow into drains or water courses. Waste and empty containers should be disposed of without creating dust according to local legislation.

14. TRANSPORT INFORMATION

- In general powder coatings can be transported without restrictions.

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15. REGULATORY INFORMATION

- In accordance with EC-directive 93/18/EEC the product is labelled as follows :

Danger classification : none

16. OTHER INFORMATION

These information given in the SDS represents to the best of our knowledge the state of art of today. Their aim is to describe the safety profile of our products and are not intended to warrant specific properties of our products.

Emission date : 19/11/2004