

POWDER COATINGS

Safety data sheet – IN ACCORDANCE WITH EC 1907/2006

1. Identification of the Substance/Preparation and the Company/Undertaking

- 1.1 Code: { :tbArticoli!ID_ARTICOLO}
Product name: { :tbArticoli!DescArt}
- 1.2 Product description and use : powder paints for electrostatic coating of metal surfaces/objects.
- 1.3 Ecopolifix Srl
Registered office:
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- 1.4 Emergency phone number: contact Ecopolifix Srl – Plant in Riese Pio X 0039-0423-755043 – In office time: 8.00-12.00 / 13.30-17.30

2. Hazards identification

The product is classified as not hazardous according to the EECdirectives.
Observe the rules usually applicable when handling chemicals: avoid eye and skin contact and ingestion.
Being the product powdery, persons with allergies or respiratory difficulties should not be employed in coating plants.

3. Composition/information on ingredients

- 3.1 Chemical description: powder paints for electrostatic coating of metal surfaces/objects.
3.2 Hazardous substances: none
Substances presenting a health hazard within the meaning of Directive 67/548/EEC and further amendments or substances subject to recognized limits of exposure: none
Hazardous substances: { :tbArticoli!ComponentiPericolosi}
- 3.3 Substances not classified as hazardous:

Saturated carboxyl polyester resins			>50%
Barium Sulfate	CAS 7727-43-7	EINECS 231-784-4	5-25%
Titanium Dioxide	CAS 13463-67-7	EINECS 236-675-5	2-25%

- 3.4 Substances classification, symbol and R-Phrases: not applicable.
3.5 Name and registration number of substances: not available.

4. First aid measures

- General information:**
At room temperature the product is not irritating and does not release hazardous smokes.
The below mentioned measures refer to critic situations (for instance.: fire or spillings of relevant quantities of product).
- Skin contact:**
wash affected areas thoroughly with soap and water; do not use solvents or thinners
- Eye contact:**
Flush eyes with plenty of clean, fresh water for at least ten minutes, keeping eyelids wide open. If symptoms persist, seek medical attention for the abrasive characteristics of the product.
- Ingestion:**
Do not induce vomiting. Get immediate medical attention and show label or safety data sheet.
- Inhalation:**
Ventilate the room. Remove patient from the contaminated room and keep him at rest in a well-ventilated room. In case of indisposition seek medical advice.

5. Fire-fighting measures

- General rules:**
Store and handle the product at least three meters away from open fire or any source of ignition. Do not smoke. As a thin layer, under the action of flames, combustion will take place with generation of smoke, carbon oxides.
Prevent run-off from fire fighting from entering drains or water courses.
- Recommended extinguishing media:**
In case of fire use CO2, foam, chemical powders according to the materials involved in the fire.
- Extinguishing media to avoid:**
Do not use water: it could be not suitable, or even detrimental, due to possible floating of the product on water with resultant spreading of fire to other areas.
- Hazards from combustion:**
Avoid to breathe smokes.
In case of combustion carbon monoxide might be released.
In particular conditions of fire traces of other harmful or toxic substances can not be excluded.
- Protective equipment:**
Wear respiratory protective equipment; use gasmask equipped with filters suitable for smokes or fire gases.
(white-red colour).
In closed rooms and/or with high temperatures use respirator.

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6. Accidental release measures

Person-related safety precautions

Wear dust masks, gloves, safety goggles and protective clothes.
High danger of slipping in case of issue/spilling of the product.

Measures of environmental protection:

Provide for sufficient room ventilation.
Remove all sources of ignition/combustion (flames, sources of heat, etc.).
Prevent the product from entering drains or water courses.
If the product enters drains, sewers and water courses or in case of contamination of soil and/or vegetation, advice the local authorities.

Methods for cleaning up:

Collect the spilled product for use, if possible, or remove it by means of a vacuum cleaner suitable for organic powders.
Collect contaminated materials into suitable containers which must be tightly sealed and arrange for proper disposal by authorized companies.
After removal wash the involved area and materials with water.

7. Handling and storage

7.1 Handling

When handling high quantities of product, provide for a good ventilation.
Use appropriate protection equipment (dust masks, safety goggles, gloves). See the following section 8 too.
Powders may take an electrostatic charge; when transferring powders from the original container, use grounded pipes or tubes only.
Precautions should be taken to prevent dust concentrations with values above the explosive limits. Do not smoke. Keep powders away from flames and sparks.
Do not eat or drink when handling powders.

7.2 Storage

Store under 30°C in a dry and well-ventilated place, protected from direct sun rays.

7.3 Special uses: not foreseen.

8. Personal protection/exposure control

8.1 Exposure limit values

Not present EC exposure limits. Here inclosed data from ACGIH

Saturated carboxyl polyester resins	TLV TWA: 10 mg/m ³ (ACGIH)	
Barium sulfate	TLV TWA: 10 mg/m ³ (ACGIH)	
Titanium dioxide	TLV TWA: 10 mg/m ³ (ACGIH)	
Exposure limits for the product:	TLV TWA: 10 mg/m ³ (breathable particles) (ACGIH)	TLV TWA: 3 mg/m ³ (breathable particles) (ACGIH)

8.2 Exposure control

Observe the rules usually applicable when handling chemicals: - keep the product away from food, drinks and fodders, - take off contaminated clothes immediately, - do not breathe powders, - avoid skin contact, - avoid eye contact.
Arrange for sufficient ventilation of the areas where powders are stored or handled. Avoid the formation and spreading by air of powders by means of shieldings of coatings lines and the use of suitable ventilation/exhaust systems.

8.2.1 Exposure control

a) Respiratory protection equipment

Provide for suitable respiratory protection; when concentration of dusts can not be maintained below the exposure limits, wear a dust mask with a cartridge filter suitable for powders with protection P3

b) Hand protection equipment

If properly handled, no equipment is required for normal use. In case of prolonged contact gloves or protectives creams are recommended. Gloves must be waterproof and stable against powders.

c) Eyes protection equipment

Not required for normal use. Wear safety goggles in case of possible contact with powders.

d) Skin protection equipment

No particular precaution is required in case of normal use.

8.2.2 Environment exposure control: not available.

9. Physical and chemical properties:

9.1 General information.

Form: fine powder.

Odour: light not unpleasant.

9.2 Important information concerning health, safety and environment.

Ph: not available.

Point/interval of boiling: not available.

Flash point: not available.

Inflammability: not available.

Comburent properties: not applicable.

Steam pressure: not available.

Bulk density: 0,50-0,80 gr/cm³

Solubility: not available.

Water solubility: insoluble.

n-octanol/water distribution coefficient: not available.

Viscosity: not available.

Steam density: not available.

Evaporation speed: not available.

9.3 Further information.

Specific gravity: 1,5-1,7 gr/cm³

Softening point: circa 70°C

Self-ignition temperature: 450-600°C

Explosion properties: explosion danger, powder explosion class st:1

Max. explosion pressure : 7 bar

Average powder particles size : 40 microns

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10. Stability and reactivity

10.1 Conditions to avoid

No decomposition occurs, if properly used according to the rules.

At temperatures above 50°C a partial softening of the product might occur with consequent alterations of the chemical properties that might compromise its use.

10.2 Materials to avoid

no dangerous reaction known under the recommended storage and handling situations.

10.3 Hazardous decomposition products

The contact with strong oxidising and reducing agents might cause toxic gases. At high temperatures hazardous decomposition products might be generated.

11. Toxicological information

No toxicological data is available about the product. Therefore refer to the concentration of the single substances to evaluate the toxicological effects. Look at paragraph 2 for information. Effects resulting from the exposure to the product. Powder coatings are generally classified as inert powders.

12. Ecological information

Use according to the rules usually applicable when handling chemicals; prevent this product from entering phreatic surfaces, water courses and drains.

12.1 Ecotoxicity: not available.

12.2 Mobility: not available.

12.3 Persistence and degradability: not available.

12.4 Bioaccumulation potential: not available.

12.5 About: PBT: not applicable.

12.6 Other toxic effects: not available.

13. Disposal considerations

Recover if possible. Wastes from residues/unused products should be disposed of in authorized disposal plants or by incineration in controlled conditions. Arrange for disposal in compliance with the local and national legislation.

14. Transport information

This product is not classified as dangerous according to the transport regulations IMDG- ADR/RID-ICAO/IATA-DGR-ADNR: not applicable

15. Regulatory information

EU 67/548/CEE e 1999/45/CE (Classification and labelling):

S Phrases:

S22 Do not breathe dusts.

S33 Avoid accumulation of electrostatic charges.

S38 In case on insufficient ventilation wear suitable respiratory equipment

S51 Use in a well-ventilated place only

Particular provisions:

Safety data sheet available on request for professional users.

Where applicable, refer to the following directives:

D.P.R. 303/56 (health controls)

D.Lgs 334/99 (Directive Seveso)

D.P.R. 547/55 (Rules for industrial accident prevention)

D.Lgs. 152/2006 (water drains, atmosphere emissions and wastes).

D.Lgs 626/94 and further amendments and supplements and D.Lgs 25/2002 (safety and health of workers)

Main sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2006 edition

Directive 200/39/EC to tweak a first list of the indicative limits values on application to the directive 98/24/EC of the workers protection

Council to play it safe produced from chemical agents on the work site.

D.Lgs. 02 february 2002 nr 25 – art. 7

The information contained in this safety data sheet is based on our state of knowledge and they are corresponding to the Article (EC) n. 1907 of the European Parliament and to the Council dated 18th december 2006 (REACH).

This information refers to the a. m. product only. The product should not be used for purposes other than those stated and without obtaining written handling instructions. We assume no responsibility for improper use.

The user is responsible for ensuring that the requirements of relevant legislation (health, safety and environmental protection) are complied with.

The information contained in this safety data is designed as a guidance on the product characteristics and should not be construed as any guarantee of technical performances or suitability for particular applications of the product itself.

This safety data sheet voids and replaces any previous issue.

The information and recommendations contained in this safety data sheet are given in good faith and are based on our knowledges.

Issue n. 3 date of issue 01/06/2007 revision 0

Ecopolifix Srl