

1. Identification of the Preparation and the Company

Trade Name of the Preparation:

AgPURE Wax5

Use of the Preparation:

Antimicrobial finishing of plastics.

Company:

ras materials GmbH, Nußberger Str. 6b, D-93059 Regensburg, telephone: +49 (0) 941 607 17-42,
fax: +49 (0) 941 607 17-44, office@rasmaterials.com
Department of MSDS: info@chemieberatung.com

Emergency Telephone:

+49 (0) 941 607 17-42 (manufacturer)

2. Hazards Identification

Unknown.

3. Composition / Information on Ingredients

Polymer wax powder containing nano-silver.

Hazardous Ingredients:

| <u>EINECS-No.</u> | <u>CAS-No.</u> | <u>Name According to EC Directives</u> | <u>Content</u> | <u>Unit</u> | <u>Classification</u> | <u>R-Phrases</u> |
|-------------------|----------------|--|----------------|-------------|-------------------------|------------------|
| 231-131-3 | 7440-22-4 | Silver, metallic | 5 - 15 | % | EC OELV (see section 8) | |
| 229-347-8 | 6484-52-2 | Ammonium nitrate | < 5 | % | O | 8-9 |

The text of the R-phrases is in section 16.

4. First Aid Measures

Inhalation:

of dust: remove the person to fresh air, in case of indisposition obtain medical advice.

Skin Contact:

Remove contaminated clothing, wash off affected skin with plenty of water using soap, in case of indisposition obtain medical advice.

Eye Contact:

Rinse the eyes thoroughly with plenty of water, see an eye specialist.

Ingestion:

Let rinse out the mouth and drink large quantities of water, obtain medical advice.

5. Fire-fighting Measures

Suitable Extinguishing Media:

Sprinkling water, solid extinguishing agent, foam.

Unsuitable Extinguishing Media:

CO₂, direct water jet.

Decomposition Products:

Thermal decomposition to carbon monoxide, nitrogen oxides, and organic cracked products.

Special Protective Equipment:

Tightly closing fireproof clothing and oxygen apparatus.

6. Accidental Release Measures

Person-related Precautionary Measures:

Avoid formation of dust, see also section 8 "Exposures Controls / Personal Protection".

Environmental Precautions and Methods for Cleaning up:

Collect mechanically and dispose according to regulations, unless otherwise usable.

Further Information:

Not applicable.

7. Handling and Storage

Handling:

General handling precautions:

Keep container tightly closed, avoid dust formation.

Protection from fire and explosion:

Endangered containers are to be cooled with sprinkling water, take measures against electrostatic charges.

Storage:

Regulations of storage:

Store container between 10 and 30 °C.

Incompatible materials:

Keep container away from combustible material, concentrated sulphuric acid, and alkali hydroxide solutions.

Storage class according to VCI (Association of the German Chemical Industry):

LGK 11

8. Exposure Control / Personal Protection

Additional Information for the Formation of Technical Facilities:

No further information available, see section 7 "Handling and Storage".

Occupational Exposure Limit Values (Directive 2000/39/EC):

| EINECS-No. | CAS-No. | Ingredient | Limit Values | | Remarks |
|------------|-----------|------------------|-----------------------|-----------|---------|
| | | | (8 h) | (15 min.) | |
| 231-131-3 | 7440-22-4 | Silver, metallic | 0.1 mg/m ³ | - | - |

EC SAFETY DATA SHEET

Manufacturer/supplier:
Date of issue: 01/28/2010

AgPURE Wax5
ras materials GmbH, D-93059 Regensburg
Updated: First edition

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12. Ecological Information

Persistence in the Environment:

The product is slightly water-soluble and can be separated mechanically from the effluent.

Ecotoxic Effects:

Fish toxicity (Leuciscus idus) LC₅₀: > 100 mg/l / 96 h (polymer wax)

13. Disposable Considerations

Residues and contaminated packaging are special waste. For disposing ask your local authority.

Waste Classification according to EC Regulations (2000/532/EC):

07 02 15 Wastes from additives.

14. Transport Information

No dangerous good.

15. Regulatory Information

Labelling according to EC Directives:

Special label: "Safety data sheet available for professional user on request."

German Regulations:

| | |
|---|--------------------------------------|
| Water Hazardous Class: | WHC 3 (strongly hazardous to water). |
| Classification According to TA Luft (2002) (Technical Instructions about Clean Air): | Not applicable. |

16. Other Information

Denomination in Annex I of the Directive 96/82/EC
(Control over dangers of disasters with hazardous substances): Not applicable.

| | |
|--|---------|
| Registration numbers according to 98/8/EC: | N-29428 |
| | N-29429 |
| | N-29430 |
| | N-29431 |

The text of the R-phrases of section 3:

| | |
|---|--|
| 8 | Contact with combustible material may cause fire |
| 9 | Explosive when mixed with combustible material |

The information in this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and is, in our opinion consistent with the state of general scientific and technical knowledge at that date, but we cannot except liability for a loss, injury or damage which may result from its use. In compiling this MSDS we have taken into account all proper application of the material of which we are aware and any user of the material should consult us before applying it to any novel or unusual use. We must section out that it is the responsibility of any intermediate supplier to ensure that the information contained in this MSDS is passed to the ultimate user.