

MATERIAL SAFETY DATA SHEET

Printed : 03/03/2005

Revised : 02/12/2004

TRADE NAME : MIKROPUR POWDER COATING

1. IDENTIFICATION

<ul style="list-style-type: none"> • Description • Name • Product Code • Manufacturer • Info • Contact 	<p><i>Powder Coatings (exterior use)</i></p> <p><i>Mikropur</i></p> <p><i>UU-Series</i></p> <p><i>Mikroton Kimya</i></p> <p><i>+90 212 886 96 26</i></p> <p><i>Quality Dept</i></p>
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2. COMPOSITION

<ul style="list-style-type: none"> • Description Mixture of the substances listed below with non-hazardous additions. <p><i>POLYMER POLYURETHANE RESIN</i></p> <p><i>HARDENER</i></p> <p><i>TITANIUM DIOXIDE</i></p> <p><i>BARIUM SULPHATE</i></p> <p><i>ORGANIC & INORGANIC PIGMENT</i></p> <p>Dangerous Component</p>	<p><i>10 – 80 %</i></p> <p><i>2 – 7 %</i></p> <p><i>0 – 30 %</i></p> <p><i>0 – 6 %</i></p> <p><i>0 – 6 %</i></p> <p>-</p>
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3. HAZARDOUS IDENTIFICATIONS

<ul style="list-style-type: none"> • Hazard Description • Information pertaining to particular danger for human & environment • Classification system • NFPA rating (0-4) 	<p><i>Harmful</i></p> <p><i>Hatmful by inhalation and if swallowed,</i></p> <p><i>May cause sensitization by inhalation</i></p> <p><i>Classification was made according to the latest editions of ISL</i></p> <p><i>Health : 1</i></p> <p><i>Fire : 1</i></p> <p><i>Reactivity : 0</i></p>
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4. FIRST AID

<ul style="list-style-type: none"> • After inhalation • After Skin contact • After eye contact • After swallowing 	<p><i>Supply fresh air and call for a doctor</i></p> <p><i>The product does not irritate the skin</i></p> <p><i>Rinse opened eye for several minutes under fresh water</i></p> <p><i>Rinse mouth out and then drink plenty of water, if symptoms persist call a doctor</i></p>
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5. FIRE FIGHTING

<ul style="list-style-type: none"> • Suitable extinguishing agents • Protective equipment 	<p><i>Use CO₂ powder or water spray, Fight larger fires with water or alcohol resistant foam</i></p> <p><i>Wear self-contained respiratory device</i></p>
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6. ACCIDENTAL RELEASE

<ul style="list-style-type: none"> • Person related precautions • Measures for environmental protection • Measures for cleaning & collecting 	<p><i>Ensure adequate ventilation</i></p> <p><i>Do not allow to enter sewer & surface or ground water</i></p> <p><i>Pick up mechanically. Dispose contaminated material as waste according to item 13</i></p>
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7. HANDLING & STORAGE

➤ **Handling**

- **Information for safe handling**
- **Information for protection against explosions & fires**

*Prevent formation of dust. Ensure good ventilation /exhaustion at the workplace
Dust can combine with air to form an explosive mixture*

➤ **Storage**

- **Requirements to be met by storage place and receptacles**
- **Storage in one common storage facility**

Store in cool, dry place in tightly closed container. Storage temp. Does not exceed 25° F/ 77° C to ensure the product quality. Shelf life up to 1 years. Protect from heat and direct sunlight, humidity and water.

Not required

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- **Additional info**
- **Personal protective equipment**
- **Breathing equipment**
- **Protection of hands**
- **Protection of eyes**

*See item 7
Keep away from foodstuffs, beverage and feed. Wash hands before breaks and at the end of work. The usual precautionary measures for chemicals should be followed.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use "independent of circulating air" respiratory device.*

Not required

Not required

9. Physical and Chemical Properties

- **Form**
- **Color**
- **Odour**
- **Change in condition**
- **Melting point & range**
- **Boiling point & range**
- **Flash point**
- **Auto igniting**
- **Danger of explosion**
- **Density**
- **Solubility in water**
- **Solvent Content**

*Solid, fine powder
According to product
Mostly odourless*

*70-80°C / 158-176°F
Not applicable
Not applicable
Not self-igniting
Does not normally present an explosive hazard. However dust can combine with air to form an explosive mixture if it comes together with a source of ignition
LOWER EXP. LIMIT = 15 g / m³
UPPER EXP.LIMIT = 50 g / m³
1,4 – 1,7 g/cm³
No miscible & difficult to mix
Organic solvents : 0,00 %
Solid Content : 100,00 %*

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10. REACTIVITY & STABILITY

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|---|---|
| <ul style="list-style-type: none"> • Thermal decomposition conditions to be avoided • Dangerous reactions • Dangerous products of decomposition | <p><i>No decomposition if used according to specifications</i></p> <p><i>No dangerous reactions</i></p> <p><i>No dangerous decomposition products</i></p> |
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11. TOXICOLOGICAL INFORMATION

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|---|--|
| <ul style="list-style-type: none"> • Primary irritant effect • Sensitization • Additional toxicological information | <p><i>On skin : No irritant effect</i></p> <p><i>On eye : No irritant effect</i></p> <p><i>Sensitization possible though inhalation</i></p> <p><i>The product shows the following danger according to internally approved calculation methods for preparations harmful</i></p> |
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12. ECOLOGICAL INFORMATION

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| <ul style="list-style-type: none"> • General notes | <p><i>Water hazard class 1 (self-assessment) : slightly hazardous for water</i></p> |
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13. DISPOSAL CONSIDERATIONS

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|--|---|
| <ul style="list-style-type: none"> ➤ Product • Recommendations | <p><i>Must not be disposed of together with household garbage. Do not allow product to reach sewage systems</i></p> |
| <ul style="list-style-type: none"> ➤ Uncleaned packaging • Recommendations | <p><i>Disposal must be made according to official regulations</i></p> |

14. TRANSPORTATION INFORMATION

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|--|---|
| <ul style="list-style-type: none"> ➤ DOT regulations • Hazard class ➤ IATA regulations ➤ Maritime transportation IMDG • Marine pollutant | <p><i>Non regulated</i></p> <p><i>Not Dangerous under IATA regulations</i></p> <p><i>No</i></p> |
|--|---|

15. REGULATIONS

- | | |
|---|---|
| <ul style="list-style-type: none"> • Product related hazard info • Hazard symbols • Hazard-determining components of labeling • Risk phrases • Safety phrases | <p><i>Product has been classified and marked in accordance with directives on hazardous materials</i></p> <p><i>Harmful</i></p> <p>-</p> <p><i>Harmful by inhalation and if swallowed may cause sensitization by inhalation and skin contact</i></p> <p><i>Keep out of the reach of children</i></p> <p><i>Keep container dry</i></p> <p><i>Keep container in well ventilated place</i></p> <p><i>Keep away from food, drink and animal feed</i></p> <p><i>Do not breathe gas, fumes vapour, spray</i></p> <p><i>If swallowed, call medical advice immediately and show this container or label</i></p> |
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16. OTHER INFORMATION	
<i>This information is based on our present knowledge. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.</i>	
<i>Powder may or may not contain crystalline silica.</i>	