

## 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"> <li>• <b>Description</b></li> <li>• <b>Name</b></li> <li>• <b>Product Code</b></li> <li>• <b>Manufacturer</b></li> <li>• <b>Info</b></li> <li>• <b>Contact</b></li> </ul>	<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"> <li>• <b>Description</b> Mixture of the substances listed below with non-hazardous additions.</li> </ul> <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 &amp; INORGANIC PIGMENT</i></p> <p><b>Dangerous Component</b></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"> <li>• <b>Hazard Description</b></li> <li>• <b>Information pertaining to particular danger for human &amp; environment</b></li> <li>• <b>Classification system</b></li> <li>• <b>NFPA rating (0-4)</b></li> </ul>	<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"> <li>• <b>After inhalation</b></li> <li>• <b>After Skin contact</b></li> <li>• <b>After eye contact</b></li> <li>• <b>After swallowing</b></li> </ul>	<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"> <li>• <b>Suitable extinguishing agents</b></li> <li>• <b>Protective equipment</b></li> </ul>	<p><i>Use CO<sub>2</sub> 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"> <li>• <b>Person related precautions</b></li> <li>• <b>Measures for environmental protection</b></li> <li>• <b>Measures for cleaning &amp; collecting</b></li> </ul>	<p><i>Ensure adequate ventilation</i></p> <p><i>Do not allow to enter sewer &amp; 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**

*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.*

- **Breathing equipment**

*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.*

- **Protection of hands**
- **Protection of eyes**

*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**

*Solid, fine powder  
According to product  
Mostly odourless*

- **Density**
- **Solubility in water**
- **Solvent Content**

*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 / m<sup>3</sup>  
UPPER EXP.LIMIT = 50 g / m<sup>3</sup>  
1,4 – 1,7 g/cm<sup>3</sup>  
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"> <li>• <b>Thermal decomposition conditions to be avoided</b></li> <li>• <b>Dangerous reactions</b></li> <li>• <b>Dangerous products of decomposition</b></li> </ul> | <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> |
|---|---|

### 11. TOXICOLOGICAL INFORMATION

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• <b>Primary irritant effect</b></li> <li>• <b>Sensitization</b></li> <li>• <b>Additional toxicological information</b></li> </ul> | <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"> <li>• <b>General notes</b></li> </ul> | <p><i>Water hazard class 1 (self-assessment) : slightly hazardous for water</i></p> |
|--|---|

### 13. DISPOSAL CONSIDERATIONS

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|--|---|
| <ul style="list-style-type: none"> <li>➤ <b>Product</b></li> <li>• <b>Recommendations</b></li> </ul>             | <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"> <li>➤ <b>Uncleaned packaging</b></li> <li>• <b>Recommendations</b></li> </ul> | <p><i>Disposal must be made according to official regulations</i></p>   |

### 14. TRANSPORTATION INFORMATION

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>➤ <b>DOT regulations</b></li> <li>• <b>Hazard class</b></li> <li>➤ <b>IATA regulations</b></li> <li>➤ <b>Maritime transportation IMDG</b></li> <li>• <b>Marine pollutant</b></li> </ul> | <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"> <li>• <b>Product related hazard info</b></li> <li>• <b>Hazard symbols</b></li> <li>• <b>Hazard-determining components of labeling</b></li> <li>• <b>Risk phrases</b></li> <li>• <b>Safety phrases</b></li> </ul> | <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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<b>16. OTHER INFORMATION</b>	
<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>	