

MATERIAL SAFETY DATA SHEET

Printed : 03/03/2005

Revised : 02/12/2004

TRADE NAME : MIKRODUR 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>Mikrodur</i></p> <p><i>US-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 POLYESTER SUPER DURABLE 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 ey efor 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

<ul style="list-style-type: none"> ➤ Handling <ul style="list-style-type: none"> • Information for safe handling • Information for protection against explosions & fires ➤ Storage <ul style="list-style-type: none"> • Requirements to be met by storage place and receptacles • Storage in one common storage facility 	<p><i>Prevent formation of dust. Ensure good ventilation /exhaustion at the workplace Dust can combine with air to form an explosive mixture</i></p> <p><i>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.</i></p> <p><i>Not required</i></p>
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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

<ul style="list-style-type: none"> • Additional info • Personal protective equipment • Breathing equipment • Protection of hands • Protection of eyes 	<p><i>See item 7</i></p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>Not required</i></p> <p><i>Not required</i></p>
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9. Physical and Chemical Properties

<ul style="list-style-type: none"> • 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 	<p><i>Solid, fine powder</i></p> <p><i>According to product</i></p> <p><i>Mostly odourless</i></p> <p><i>70-80°C / 158-176°F</i></p> <p><i>Not applicable</i></p> <p><i>Not applicable</i></p> <p><i>Not self-igniting</i></p> <p><i>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</i></p> <p><i>LOWER EXP. LIMIT = 15 g / m³</i></p> <p><i>UPPER EXP.LIMIT = 50 g / m³</i></p> <p><i>1,4 – 1,7 g/cm³</i></p> <p><i>No miscible & difficult to mix</i></p> <p><i>Organic solvents : 0,00 %</i></p> <p><i>Solid Content : 100,00 %</i></p>
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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> |
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15. REGULATIONS

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| <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>	