



<b>REVISION NO : 3</b> August 2010	<b>MATERIAL SAFETY DATA SHEET</b>	<b>MSDS NUMBER-024</b>
<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>		
<b>Product Name</b>	<b>Magnalium Powder (Alloy of Magnesium and Aluminium)</b>	
<b>Chemical Symbol</b>	<b>Mg/Al</b>	<b>Mg Al</b>
<b>CAS No</b>	<b>7439-95-4</b>	<b>7429-90-5</b>
<b>EINECS No</b>	<b>231-104-6</b>	<b>231-072-3</b>
<b>Supplier Name &amp; Address</b>	<b>THE METAL POWDER COMPANY LTD</b> Thirumangalam - 625706 Tamil Nadu, India Phone No: +91-4549-281995(4 Lines) Fax No : +91-4549-280689 E-Mail : <a href="mailto:info@mepco.co.in">info@mepco.co.in</a> Website : <a href="http://www.mepco.co.in">www.mepco.co.in</a>	
<b>Trade Name</b>	<b>MAN - 10 MAN - 100 SC</b> <b>MAN - 50 MAN - 100 SCD (B)</b> <b>MAN - 100 MAN - 52/100</b> <b>MAN - 10 SC MAN - 10 SCU</b> <b>MAN - 40/60 MAN -50 SCU</b> <b>MAN - 200SC</b>	
<b>2. COMPOSITION/INFORMATION ON INGREDIENTS</b>		
<b>NAME</b>	<b>CAS NO</b>	<b>UN NO</b>
Magnesium	7439-95-4	1418
Aluminium	7429-90-5	1396
<b>3. HAZARDS IDENTIFICATION</b>		
<b>Human Health</b>	Harmful	
<b>Environment</b>	Toxic for aquatic organisms	
<b>Physical</b>	If suspended in air (dust cloud), fine powder can be ignited in the presence of an ignition source and cloud pose an explosion risk in a confined environment.	
<b>Chemical</b>	Prolonged contact with water may result in reaction releasing flammable hydrogen gas - Fire and Explosion Risk. Will react with oxidising agents, causing heat and hydrogen release - Fire and Explosion Risk. Magnalium fire forms dense white smoke and very bright flame.	



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<b>4. FIRST AID MEASURES</b>		
<p><b>Inhalation:</b> Harmful</p> <p><b>Skin Contact :</b> Wash off with plenty of water - Remove the contaminated clothing.</p> <p><b>Eye Contact :</b> Rinse eye with running water. Obtain medical attention if symptoms persist.</p> <p><b>Ingestion :</b> Rinse out mouth and then drink copious amount of water. Do not induce vomiting. Obtain medical attention.</p>		
<b>5. FIRE FIGHTING MEASURES</b>		
<p><b>Suitable Extinguishing Agents</b></p> <ul style="list-style-type: none"><li>a) Gently smother burning material with dry sand</li></ul> <p><b>Unsuitable Extinguishing Agents</b></p> <ul style="list-style-type: none"><li>a) Water</li><li>b) Foam</li><li>c) CO<sub>2</sub></li><li>d) Dry chemical powder</li></ul> <p><b>Special hazards caused by the substance, its products of combustion or resulting gases</b></p> <ul style="list-style-type: none"><li>a) Dust can combine with air to form an explosive mixture</li><li>b) Contact with water releases flammable gas (hydrogen)</li></ul>		
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
<p><b>Personal Precautions</b></p> <ul style="list-style-type: none"><li>a) Avoid generation of dust clouds.</li><li>b) Keep away ignition sources</li></ul> <p><b>Environmental protection</b></p> <p>Do not allow product to enter sewage system or water courses (possible reaction releasing hydrogen).</p>		



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<b>Measures for cleaning/collection spillages:</b> a) Clean the material using non-sparking tools (eg. Natural fibre broom). Avoid formation of dust clouds. b) Do not flush with water.		
<b>7. HANDLING AND STORAGE</b>		
<b>Handling</b> Avoid generation of dust clouds. Avoid sources of sparks or other sources of ignition. Protect against static electricity. Use non sparking tools. Keep work area clean. Avoid accidental contact with reactive materials - acids or chemicals - oxidisers etc.  <b>Storage</b> Store in the supplied containers until used, with tightly closed lid. Keep in closed dry room or store The area should be suitably marked to indicate the presence of an ignitable dust. No smoking - warning should be present. Avoid sparks or other source of ignition. Keep area clean and avoid spillage Do not store with reactive materials.		
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
<b>Exposure Limits</b> Workplace Exposure Longterm exposure (TLV) - 8hrs TWA - 10mg/m <sup>3</sup>  <b>Exposure Controls</b> <b>Respiratory Protection</b> A suitable face mask is recommended if regular exposure is unavoidable. If workplace concentration requires the use of respiratory protection - Use filter types. <b>Eye protection</b> Not normally required. Irritation may occur as with any dust entering the eye - wash out immediately if it occurs.		



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<b>Skin Contact</b> Wash off with plenty of water - Remove the contaminated clothing.		
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>		
<b>Physical State</b>	- Solid	
<b>Form</b>	- Irregular particles	
<b>Color</b>	- Grey	
<b>Odour</b>	- Odourless	
<b>P.H.</b>	- N/A	
<b>Boiling Temperature</b>	- N/A	
<b>Melting Temperature</b>	- 435°C	
<b>Flash Point</b>	- N/A	
<b>Autoflammability</b>	- Product is not self igniting.	
<b>Explosive properties</b>	- Lower Explosive Limit (LEL) - 20gm/m <sup>3</sup>	
<b>Minimum Ignition Temperature-</b>	Cloud	430°C
	Layer	480°C
<b>Oxidising properties</b>	- Will react exothermically if mixed with a strong oxidising substance. and ignited	
<b>Real Density</b>	- 2.0 gm/cm <sup>3</sup>	
<b>Solubility</b>	- Insoluble in water	
<b>10. STABILITY AND REACTIVITY</b>		
<b>Stability</b> Stable when dry. No decomposition		
<b>Reactivity</b> May react with acids or oxidising agents.  Prolonged contact with water can cause a reaction releasing hydrogen gas.		
<b>11. TOXICOLOGICAL INFORMATION</b>		
<b>Acute Toxicity</b> No data available		
<b>Chronic Toxicity</b> May cause irritation to the respiratory tract and eyes. May result poor wound healing tendency after penetration to the skin. TLV - 10mg/m <sup>3</sup> (General Dust Limit)		



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<b>12. ECOLOGICAL INFORMATION</b>		
<b>Mobility/Degradability</b> Will convert to Magnesium Oxide and Aluminium Oxide during prolonged contact with water.		
<b>Ecotoxicity</b> Magnesium powder is toxic for aquatic organisms. Generally not hazardous to water.		
<b>13. DISPOSAL CONSIDERATIONS</b>		
<b>Waste</b> Dispose of in line with regional or national regulations.  Avoid product entering watercourses/sewer systems		
<b>14. TRANSPORT INFORMATION</b>		
<b>Transport over land ADR/RID clas.</b>	- 4.3 with 4.2	<b>Correct technical name:-</b>
<b>Transport over sea IMDG class</b>	- 4.3 with 4.2	Magnesium Alloy Powder
<b>Transport over ICAO/IATA class</b>	- 4.3 with 4.2	UN No. - 1418
<b>Packaging group</b>	- II	Em S No. - F-G,S-O
<b>15. REGULATORY INFORMATION</b>		
<b>Label</b> : UN classification - 4.3 Dangerous when wet Subsidiary label 4.2 Substances liable to spontaneous combustion		
<b>Risks</b>	<b>Risk Phrase - 10,15</b>	R-10- Flammable R-15- Contact with water liberates extremely flammable gas
<b>Safety</b>	<b>Safety Phrase - 7/8,43.6</b>	S-7/8 - Keep container tightly closed and dry S-43.6 - In case of fire, use sand - Never use water.
<b>16. OTHER INFORMATION</b>		
The information contained herein is based on the present state of our knowledge. It is believed to be reliable but no representation, guarantee of any kind are made.		