

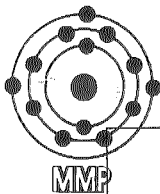
MAHARASHTRA METAL POWDERS LIMITED

REGISTERED & H.O. : 211, SHRIMOHINI, 345 KINGSWAY, NAGPUR - 440 001 (INDIA)
 Tel. : 2524645, 2533585, 2548439 FAX : 0712 - 2530461 E-Mail : mmp1@vsnl.com, mmp_1@satyam.net.in



MATERIAL SAFETY DATA SHEET

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| 1 | PRODUCT IDENTIFICATION | ALUMINIUM POWDER/ CAS7429-90-5 |
| 2 | COMPOSITION/INFORMATION ON INGREDIENTS | Aluminium 100% |
| 3 | HAZARD IDENTIFICATION 3.1 EYE 3.2 SKIN 3.3 INGESTION 3.4 INHALATION | Aluminium Dust may cause abrasion Aluminium Dust may cause irritation on repeated contact. Negligible effect. Aluminium Dust are considered nuisance particulates, which have little adverse effect on lungs and do not produce significant organic disease or toxic effects when exposure are kept under control. |
| 4 | FIRST AID MEASURES 4.1 EYE 4.2 SKIN 4.3 INGESTION 4.4 INHALATION | Flush with water for at least 15 minutes. Seek medical advice. Remove contaminated clothing and wash affected area of skin with soap and water. Seek Medical Advice Remove to fresh air. If discomfort persist, seek medical attention. |
| 5 | FIRE FIGHTING MEASURES: Unusual Fire and Explosion Hazard Special Fire Fighting Procedures | Use class "D" dry chemical extinguishing agent or other suitable extinguishing material such as dry sand. Do not use class "A", "B" or "C" extinguishers or halogenated agents. Do not use water. Water and burning finely divided aluminium react violently forming hydrogen gas and aluminium oxide. Aluminium particles will burn at a very high temperature as a mass of material or be potentially explosive if loosened and dispersed in air. At no time allow a dust cloud to be formed. This material is potentially explosive when loosened and dispersed in air. Gently cover the burning powder and form a ring around it with the extinguishing agents recommended. Do not actually mix the agent |



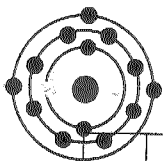
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| | | with the burning powder and do not disturb the powder until it cools to ambient temperature. At no time allow dust clouds to be formed. |
| 6 | ACCIDENTIAL RELEASE MEASURE | Dispose of in approved hazardous landfill. Remove all ignition sources. Keep people away. Avoid exposure to sparks, fire or hot metal surfaces. Using non-sparking tools, transfer spilled material to a leakproof container for hazardous disposal. |
| 7 | HANDLING & STORAGE | Empty containers may retain residues (liquid, powder, or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition; They may explode and cause injury or death. All containers should be disposed of in an environmentally safe manner. Store in a cool dry area with ventilation suitable for storing materials. |
| 8. | EXPOSURE CONTROL & PERSONAL PROTECTION 8.1 Ventilation 8.2 Eyes 8.3 Skin 8.4 Clothing | Local exhaust, explosion proof, minimum face velocity of 60 F.P.M no smoking or open lights. Wear chemical goggles, if necessary. Use Chemical resistant gloves and apron to avoid prolonged or repeated skin contact. Avoid pure synthetic fabric to prevent static build up. |
| 9. | PHYSICAL AND CHEMICAL PROPERTIES. 9.1 Appearance/Odour 9.2 Vapor Density 9.3 Evaporation Rate 9.4 Atomic Weight 9.5 Melting Point 9.6 Boiling Point | Grey powder – No odour. Heavier than air Slower than Butyl Acetate 26.97 660 Deg.C. 2056 Deg.C. |
| 10 | STABILITY AND REACTIVITY DATA 10.1 Chemical Stability 10.2 Conditions to avoid 10.3 Hazardous decomposition products 10.4 Hazardous polymerization | Stable under normal storage conditions. Heat, sparks, open flames, water, acids, alkalis, chlorinated hydrocarbon and strong oxidizers. Reacts with water, acid, or alkalis to form combustible hydrogen gas. Will not occur under normal conditions. |
| 11 | TOXICOLOGICAL INFORMATION | Powder is non-toxic. |



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| 12 | ECOLOGICAL INFORMATION | Advise Police if powder has entered watercourse or sewerage or has contaminated soil or vegetation. Take measures to minimize the effect on the ground water. |
| 13 | OTHER PRECAUTIONS 13.1 Work/Hygienic Practices | Wash hands before eating or smoking. Smoke in designated areas only. Use non-sparking, handling equipment. Cover and re-seal partially empty containers. Keep completely dry. Storage areas be must of fire resistant construction. |
| 14 | TRANSPORT INFORMATION UN No IMDG-Class Packing Group | 1309 4.1 II |
| 15 | ADDITIONAL INFORMATION | The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. To promote safe use of this product, the user should inform its employees, agents and contractors on the contents of this material safety data sheet. The product usage is outside Maharashtra Metal Powders Ltd control and the user must determine the conditions of safe and proper use of the product. |
| 16 | REFERENCES EH40 HS(G) 103 HSE CHIP HSE(COSHH) | Occupational Exposure Limits. Guidance Notes on Safe Handling Chemical (Hazard Information and Packaging for supply Regulations.) Control of Substance Hazardous to Health Regulations. |