ALUMINIUM POWDER

CAS No: 7429-90-5 RTECS No: BD0330000 UN No: 1396 (uncoated) EC No: 013-001-00-6 Aluminum powder Al Atomic mass: 27.0

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING	
FIRE	Flammable.	NO contact with acid(s), alcohol, oxidants and water.	Dry sand, special powder. NO water. NO carbon dioxide, foam.	
EXPLOSION	Finely dispersed particles form explosive mixtures in air. Risk of fire and explosion on contact with acid(s), alcohol, oxidants and water.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.		
EXPOSURE		PREVENT DISPERSION OF DUST!		
Inhalation		Local exhaust or breathing protection.	Fresh air, rest.	
Skin		Protective gloves.	Rinse skin with plenty of water or shower.	
Eyes		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.	
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth.	
SPILLAGE DISPOSAL		PACKAGING & LABELLING		
Sweep spilled substance into covered and dry containers. (Extra personal protection: P2 filter respirator for harmful particles).		F Symbol R: 15-17 S: (2-)7/8-43 UN Hazard Class: 4.3 UN Pack Group: II		
EMERGENCY RESPONSE		STURAGE		
Transport Emergency Card: TEC (R)-43G14 NFPA Code: H0; F3; R1; (uncoated)		Separated from strong oxidants, strong bases, strong acids and water. See Chemical Dangers. Dry. Well closed.		

IPCS International Programme on Chemical Safety





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SEE IMPORTANT INFORMATION ON THE BACK.

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IMPORTANT DATA			
Physical State; Appearance WHITE TO GREY POWDER	Routes of exposure The substance can be absorbed into the body by inhalation.		
 Physical dangers Dust explosion possible if in powder or granular form, mixed with air. Chemical dangers Reacts with water and alcohols, and violently with oxidants, strong acids, strong bases, and chlorinated hydrocarbons causing fire and explosion hazard. Occupational exposure limits TLV (as AI): 5 mg/m³ (as TWA) (pyro powder) (ACGIH 2000). TLV: 10 mg/m³ (as TWA) (metal dust) (ACGIH 2000).	 Inhalation risk Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly. Effects of long-term or repeated exposure Lungs may be affected by repeated or prolonged exposure to dust particles. The substance may have effects on the nervous system, resulting in impaired functions. 		
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PHYSICAL PROPERTIES

Boiling point: 2327°C Melting point: 660°C Density: 2.7 g/cm³

0988

Solubility in water: none, reaction Auto-ignition temperature: 590°C

ENVIRONMENTAL DATA

NOTES

Other UN number: UN1309 Aluminium powder, coated, Hazard class 4.1, Pack group II.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information

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