



The Metal Powder Company Limited

REVISION NO : 6
January 2015

MATERIAL SAFETY DATA SHEET

MSDS NUMBER - 006

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Aluminium Powder - Coated		
Chemical Symbol	Al	Stearic Acid	
CAS No	7429-90-5	57-11-4	
EINECS No	231-072-3	200-313-4	
Supplier Name & Address	THE METAL POWDER COMPANY LTD Thirumangalam - 625706 Tamil Nadu, India Phone No: +91-4549-281995(4 Lines) Fax No : +91-4549-280689 E-Mail : info@mepco.co.in Website : www.mepco.co.in		
Trade Name	000 111 555 999 999S LD999 666 666-O	444 333 333S FP33 222 FF03 FF05 PO55	LI55 FL77 SL77 CO66 CO77 CO88 CO99 CO88-IV

2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NO	UN NO
Aluminium	7429-90-5	1309
Stearic Acid	57-11-4	1325

3. HAZARDS IDENTIFICATION

Human Health	No data available.
Environment	No data available.
Physical	
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	
Chemical	
Prolonged contact with water may result in reaction releasing flammable hydrogen gas-Fire and Explosion risk. Will react with oxidizing agents or acids and alkalis, causing heat and hydrogen release-Fire and Explosion risk Can react violently with halogenated hydrocarbons - Explosion risk	

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4. FIRST AID MEASURES

Inhalation: No known health risk - treat as nuisance dust

Skin Contact : Wash off with plenty of water

Eye Contact : Rinse eye with running water. Obtain medical attention if symptoms persist

Ingestion : Rinse out mouth and then drink copious amount of water. Do not induce vomiting. Obtain medical attention

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Agents

- a) Gently smother burning material with dry sand

Unsuitable Extinguishing Agents

- a) Water
- b) CO₂
- c) Foam
- d) Dry Chemical Powder
- e) Halogenated hydrocarbon fire extinguisher

Special hazards caused by the substance, its products of combustion or resulting gases

- a) Dust can combine with air to form an explosive mixture
- b) Contact with water releases flammable gas (hydrogen)

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

- a) Avoid formation of dust clouds
- b) Keep away ignition sources

Environmental protection

Do not allow product to enter sewage system or water courses (possible reaction releasing hydrogen)

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Measures for cleaning/collection spillages:

- a) Clean the material using non-sparking tools (eg. Natural fibre broom). Avoid formation of dust clouds.
- b) Do not flush with water

7. HANDLING AND STORAGE

Handling

Avoid generation of dust clouds
Avoid sources of sparks or other sources of ignition
Protect against static electricity
Use suitable explosion proof equipment and spark-proof tools
Keep work area clean
Avoid accidental contact with reactive materials - acids or chemicals - oxidisers etc
Use non sparking tools

Storage

Store in the supplied containers until used
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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Workplace Exposure

Longterm exposure (TLV) - 8hrs TWA - 10 mg/m³

Exposure Controls

Respiratory Protection

A suitable face mask is recommended if regular exposure is unavoidable. If workplace concentration requires the use of respiratory protection - Use filter types

Eye protection

Not normally required. Irritation may occur as with any dust entering the eye - wash out immediately if it occurs



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Skin Contact

Wash off with plenty of water - Remove the contaminated clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	- Solid
Form	- Flaky particles
Color	- Grey
Odour	- Odourless
P.H.	- N/A
Boiling Temperature	- 2467°C
Melting Temperature	- 660°C
Flash Point	- N/A
Autoflammability	- Product is not self igniting.
Explosive properties	- Fine Aluminium powder may be explosive if disperse into a dust cloud in air in the presence of a source of ignition. Lower Explosive Limit (LEL) - 40gm/m ³ Cloud 610°C Layer 320°C
Minimum Ignition Temperature-	
Oxidising properties	- Will react exothermically if mixed with a strong oxidising substance and ignited
Real Density	- 2.7 gm/cm ³
Solubility	- Insoluble in water and organic solvents

10. STABILITY AND REACTIVITY

Stability

Stable when dry. No decomposition

Reactivity

May react with acids or oxidising agents or halogenated hydrocarbons

Prolonged contact with water can cause a reaction releasing hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

No data available

Chronic Toxicity

No Chronic effects known

TLV - 10mg/m³ (General Dust Limit)



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12. ECOLOGICAL INFORMATION

Mobility/Degradability

Will convert to Aluminium Oxide (alumina) during prolonged contact with water

Ecotoxicity

Aluminium powder is not ecotoxic

Generally not hazardous to water

13. DISPOSAL CONSIDERATIONS

Waste

Dispose of in line with regional or national regulations.

Avoid product entering watercourses/sewer systems

14. TRANSPORT INFORMATION

Transport over land ADR/RID class

- 4.1

Transport over sea IMDG class

- 4.1

Transport over ICAO/IATA class

- 4.1

Packaging group

- II

Correct Technical Name :-
Aluminium Powder, coated.
UN No:- 1309
Ems No:- F-G, S-G.

15. REGULATORY INFORMATION

Label : UN classification - 4.1 Flammable solids

Risk

Risk Phrase - 10,15

R-10- Flammable

R-15-Contact with water liberates extremely flammable gas

Safety

Safety Phrase - 7/8, 43.6

S-7/8- Keep container tightly closed and dry

S-43.6- In case of fire use sand - NEVER use water

16. OTHER INFORMATION

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.

