

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

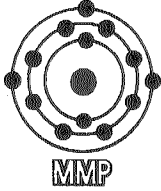


MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION Aluminium Paste Leafing/-CAS7429-90-5
Non-leafing grades
2. COMPOSITION/INFORMATION ON INGREDIENTS (a) Aluminium flake 65%-85%
(b) Mineral Turpentine Oil (MTO) 14-34%
(c) Stearic Acid/Oleic Acid 1% - 5%
3. HAZARDS IDENTIFICATION
3.1 Skin contact: Irritation, dermatitis on prolonged contact
3.2 Eye contact Irritation
3.3 Inhalation Low hazard because of low volatility.
In high concentrations is anaesthetic
4. FIRST AID MEASURES
4.1 Skin contact Flush with soap and water.
4.2 Eye contact If overcome by vapours, remove immediately
from exposure and obtain medical attention

4.3 Ingestion Low toxicity risk. Do not induce vomiting.
Obtain medical attention.
5. FIREFIGHTING MEASURES Use dry inert materials or class D extinguishing agent.
Do not use water. Water reacts with Aluminium dust to form hydrogen, which tends to spread the fire. Do not use Halogenated extinguishing agents; an Explosive reaction can occur.
Burning of the product will result in the release of toxic fumes. Firefighters should wear self-contained breathing apparatus and protective clothing.
6. ACCIDENTAL RELEASE & MEASURES Avoid any source of ignition (open flames, heat static discharges) during handling
Do not smoke. Prevent the paste drying out
The resulting aluminium flake when Disturbed could form a dust cloud. This Could explode if a spark or other ignition Source is also present.
Product can release vapours that can form Explosive mixtures with air.
Vapours are heavier than air.
7. HANDLING & STORAGE Store away from open fire, heat and humidity at ambient temperature in a well-ventilated area
Do not store in same area as oxidizing Agents or combustible material.

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8. EXPOSURE CONTROL & PERSONAL PROTECTION

8.1 Ventilation

Equivalent to outdoor ventilation. Use explosion proof equipment for exhausts etc
Chemical goggles, if necessary.

8.2 Eyes

8.3 Gloves

Nitrile rubber or hydrocarbon-proof gloves

8.4 Clothing

Avoid pure synthetic fabric to prevent static build-up

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form as supplies

Metallic aluminium paste, fatty odour

9.2 Flash point: Close cup Open cup

81°C

81°C

Flammable limit

MTO 0.9 -6.0% vol in air

Auto-ignition temperature

(a) MTO-293°C

(b) Aluminium flake-640°C

Boiling point

MTO 154°C - 202°C

Specific gravity (H₂O)

1.40

Vapour density(Air=1)

4.83 at 1 atm (MTO)

Vapour pressure

MTO 4.76 Kpa(0.047atm)

Evaporation rate(n-BuAc=1)

0.1

TLV

100 ppm-MTO

10. STABILITY AND REACTIVITY DATA:

Corrosive action

MTO will dissolve natural rubber
None on metals, plastics, fabrics. etc

Violent reaction with Air Water

None

Yes, with evolution of hydrogen

Extreme heat/fire

Yes

Strong oxidizers

Yes

Chemicals

Yes. Acids, alkalis and chlorinated
Hydrocarbons.

Reaction products

Hydrogen, aluminium oxide and
Hydroxide

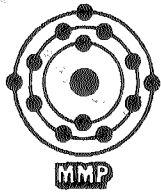
Likelihood of spontaneous Heating

Only in presence of excessive moisture

11. TOXICOLOGICAL INFORMATION:

Aluminium paste is not known to be toxic

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12. ECOLOGICAL INFORMATION Advise police if substance has entered watercourse or sewerage or has contaminated soil or vegetation . Take measures to minimize the effect on the ground water.
13. DISPOSAL CONSIDERATION Dispose waste material in accordance with local and state regulations.
14. TRANSPORTATION INFORMATION: Class-Non Hazardous.
15. OTHER INFORMATION:

This information was obtained from sources which are believed. Recipients are responsible for adhering to existing laws and regulations. To promote safe use of this product, the user should inform its employees, agents and contractors of the contents of this material supply data sheet. The product usage is outside Maharashtra Metal Powders Ltd control and the user must determine the conditions for safe and proper use of the product.

16. REFERENCES:

- EH40 Occupational Exposure Limits.
HS(G)103 Guidance Notes on Safe Handling of Combustible Dusts.
HSE CHIP Chemical (Hazard Information and Packaging for supply) Regulations.
HSE(COSHH) Control of Substance Hazardous to Health Regulations.