

## MATERIAL SAFETY DATA SHEET

### **Aluminium Paste (Mixture of Aluminium Powder Coated and M.T.O)**

#### **Section I. Chemical Product and Company Identification**

Supplier:

Sri Kaliswari Metal Powders Private Limited

5-A, Chairman A. Shunmuganadar road

Sivakasi-626123, INDIA

00-91-4562-234300

- Chemical Symbol : Al M.T.O Saturated Fatty Acid
- CAS Number : 7429-90-5 8008-20-6 57-11-4

#### **Synonym**

Leafing Aluminium Paste

#### **Trade Name**

M15L, M20L, M30L, M35L

#### **Section II. Composition and information on ingredients**

Chemical name	CAS NO	Percent	UN NO
Aluminium	7429-90-5	65-67%	1309
Mineral Turpentine	8008-20-6	33-35%	1223
Saturated Fatty Acid	57-11-4	1.5-4%	

#### **Section III Identification:**

- Chemical Effects: Prolonged contact with water may result in reaction releasing flammable hydrogen gas which leads to fire and Explosion risk. Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Reddening, scaling, and itching are characteristics of skin inflammation.
- Chronic Health Effects: This product has no known chronic effects. Repeated or prolong exposure to this product has no known compound is not known to aggravate medical conditions.

#### **Section IV. First Aid Measures**

- SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, get medical attention.
- EYE CONTACT: Flush thoroughly with water for at least 15 minutes. If irritation persists, get medical attention.

- **INHALATION:** In case of gas or vapour inhalation, move victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, give respiratory assistance. Obtain medical assistance.
- **SWALLOWING:** Do not induce vomiting. Immediately contact local poison control centre. Should vomiting occur, be sure to keep the victim's head below hips to avoid aspiration of vomit into the lungs. Maintain the victim at rest and obtain immediate medical attention

### **Section V. Fire and Explosion Data**

- Suitable extinguishing agents/other agents: Special powder or foam for metal fires/Dry sand.
- Caution: Do not use water.
- For safety reasons unsuitable extinguishing agents: Water & Carbon dioxide
- Protective equipment: May wear fully protective suit.

### **Section VI. Accidental Release Measures**

- Personal precautions:
  - Avoid inhalation of solvent vapours in all circumstances.
  - Keep away from ignition sources.
- Measures for environmental protection:
  - Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents

### **Section VII. Handling and Storage**

- Handling
  - Perform handling in conformity with national, state, and local law and regulations.
  - Handle AIPaste well away from any ignition source, to prevent ignition of its constituent solvent. In the event of AIPaste ignition, extinguish with a dry powder extinguisher or sand extinguisher. Never expose burning AIPaste to water, as such exposure would result in generation of hydrogen gas.
  - Avoid exposure of AIPaste to water, acids, alkalis, oxidizers, metal oxidizers, or halides, as its exposure to any of these may result in generation of hydrogen gas.
  - Avoid spilling of the AIPaste during its transfer to and from any container.
  - Provide local ventilation in areas of handling and use. Exposure may cause skin, eye, and mucous membrane irritation. Use protective masks and gloves during handling and use, and avoid skin contact whenever possible.
- Storage

- Perform storage in conformity with national, state, and local law and regulations.
- Keep away from direct sunlight, rainwater, and excessive dampness. Store indoors in sealed containers, at not more than 40°C.
- Avoid sparks or any other source of ignition
- Keep area clean and avoid spillage.
- Donot store with reactive materials.

### **Section VIII. Exposure Controls/Personal Protection**

- Eye Protection: Safety glasses or goggles.
- Skin Protection: Wash off with plenty of water and remove the contaminated clothing.
- Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, an approved dust respirator must be worn.
- Ventilation: Provide adequate ventilation.

### **Section IX. Physical and Chemical Properties**

Physical State	-	Semi-Solid	
Form	-	Paste	
Color	-	Silvery White	
Odour	-	Solvent Smell	
P.H.	-	N/A	
Boiling Temperature	-	2630°C (Aluminium)	145-205°C (M.T.O)
Melting Temperature	-	660°C (Aluminium)	
Flash Point	-	35°C	
Auto ignition Temperature	-	252°C (M.T.O)	
Autoflammability	-	Product is not self igniting.	
Explosive properties	-	No Data available.	
Minimum Ignition Temperature-		No Data available.	
Oxidising properties	-	Will react exothermically if mixed with a strong oxidising substance and ignited	
Real Density	-	1.5 – 1.6 gm/cm <sup>3</sup>	
Solubility in Water	-	Insoluble.	

### **Section X. Stability and Reactivity**

- Stability: Stable at room temperature
- Reactivity: May react with acids or oxidizing agents or halogenated hydrocarbons, prolonged contact with water may cause a reaction releasing hydrogen gas. May react violently with of calcium and chromium, chlorine, chromium oxide , Tin Oxide, Hexa-chloro melamine, Trichloromelamine.
- Conditions to avoid: Avoid all possible sources of ignition(Spark of flame). Avoid impregnation of combustibles with Paste.

- Storage under room temperature and normal storage conditions, hazardous decomposition products should not be produced.

### **Section XI. Toxicological Information**

- Chronic Toxic Effects: Not known to cause any long term harmful health effects
- Acute Toxic Effects: Mild irritant to skin, eyes and respiratory system.

### **Section XII. Ecological Information**

- Ecotoxicity: Aluminium paste is not ecotoxic, generally not hazardous to water.
- Degradability: Will convert to Aluminium oxide(alumina) during prolonged contact with water.

### **Section XIII. Disposal Considerations**

- Waste Disposal Method: Waste disposal should be in accordance with existing state and local environmental regulations.
- Avoid product entering watercourses/sewer systems.

### **Section XIV. Transportation 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

Flammable Solid, Organic, N.O.S

(Aluminium Paste) UN No. 1325

Em S.No. F-G, S-G

### **Section XV. Regulatory Information**

- Label: UN classification - 4.1 Flammable solids
- Risks: Risk Phrase - 10,15                      R-10- Flammable  
R-15-Contact with water liberates flammable gas
- Safety: Safety Phrase - 7/8,                      S-7/8- Keep container tightly closed and dry  
43.4/43.6                      S-43.4/43.6- In case of fire, use Special powder or  
foam fire extinguishers or sand , Don't use water

## **Section XVI. Other Information**

Prepared By: QC Department.

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