

MATERIAL SAFETY DATA SHEET

Aluminium Paste (Mixture of Aluminium Powder Coated and Diethylene Glycol)

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 | : Aluminium | Diethylene Glycol |
| • CAS Number | : 7429-90-5 | 111-46-6 |
| • EINECS No | : 231-072-3 | 203-872-2 |

Trade Name

CONC 50 PASTE, CONC 85 PASTE, CONC 60 PASTE, CONC 75 PASTE,
CONC 95 PASTE, CONC 95 M PASTE, CONC 75S PASTE

Section II. Composition and information on ingredients

Chemical name	CAS NO	UN NO
Aluminium	7429-90-5	1309
Diethylene Glycol	111-46-6	-

Section III Identification:

- Human Health: Harmful by Inhalation
- 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

Section IV. First Aid Measures

- Inhalation: Harmful.
- Skin Contact: Wash off with plenty of water - Remove the contaminated clothing.
- 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.

Section V. Fire and Explosion Data

- Suitable Extinguishing Agents
 - Gently smother burning material with dry sand b) Use foam or Carbon-dioxide cylinder
- Unsuitable Extinguishing Agents
 - Water
 - Halogenated fire extinguisher.
- Special hazards caused by the substance, its products of combustion or resulting gases
 - Dust can combine with air to form an explosive mixture
 - Contact with water releases flammable gas (hydrogen)

Section VI. Accidental Release Measures

- Personal Precautions
 - Avoid formation of dust clouds
 - Keep away ignition sources
 - Avoid inhalation of solvent vapours in all circumstances.
- Environmental protection
 - Do not allow product to enter sewage system or water courses (possible reaction releasing hydrogen)
- Measures for cleaning/collection spillages:
 - Clean the material using non-sparking tools (eg. Natural fibre broom). Avoid formation of dust clouds.
 - If dry, stored in closed drums in dry condition.
 - If wet, stored in open topped container in an area with good ventilation and free from ignition sources

Section VII. 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

Section VIII. Exposure Controls/Personal Protection

- Exposure Limits
 - Workplace Exposure: Longterm exposure (TLV) - 8hrs TWA - 5 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
 - Skin Contact: Wash off with plenty of water - Remove the contaminated clothing

Section IX. Physical and Chemical Properties

Physical State	-	Semi-Solid	
Form	-	Paste	
Color	-	Silvery White to Grey	
Odour	-	Odourless	
P.H.	-	N/A	
Boiling Temperature	-	2467°C (Aluminium)	245°C (Diethylene Glycol)
Melting Temperature	-	660°C (Aluminium)	-10.5°C (Diethylene Glycol)
Flash Point	-		124°C (Diethylene Glycol)
Auto ignition Temperature	-		229°C (Diethylene Glycol)
Autoflammability	-	Product is not self igniting.	
Explosive properties	-	40gm/m ³	
Minimum Ignition Temperature	-No data available		
Oxidising properties	-	Will react exothermically if mixed with a strong oxidising substance and ignited	
Real Density	-	2.7 gm/cm ³ (Aluminium)	1.12 gm/cm ³ (Diethylene Glycol)
Solubility	-	Insoluble in water	Soluble in Water (Diethylene Glycol)

Section X. Stability and Reactivity

- Stability
 - Stable at room temperature
- Reactivity
 - May react with acids or oxidising agents or halogenated hydrocarbons
- Prolonged contact with water can cause a reaction releasing hydrogen gas.

Section XI. Toxicological Information

- Acute Toxicity
 - No data available
- Chronic Toxicity
 - No Chronic effects known
 - TLV - 5mg/m³

Section XII. Ecological Information

- Mobility/Degradability
 - Will convert to Aluminium Oxide (alumina) during prolonged contact with water
- Ecotoxicity
 - Aluminium paste is not ecotoxic
 - Generally not hazardous to water

Section XIII. Disposal Considerations

- Waste
 - Dispose of in line with regional or national 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
 - Aluminium paste, Coated
 - 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 extremely 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 CO₂ or sand
Never use water.

Section XVI. Other Information

Prepared By: QC Department.

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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.