



## The Arasan Aluminium Industries (P) Ltd.

Revision No:006 <b>MARCH 2022</b>	MATERIAL SAFTY DATA SHEET	MSDS No:002
<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>		
Product Name Chemical Symbol	Aluminium paste (Mixture of Aluminium powder coated and Mineral Turpentine) AL MTO	
CAS No	7429-90-5	64742-81-0
EINECS No	231-072-3	265-184-9
Supplier Name and Address	The Arasan Aluminium Industries (P) Ltd. 102 A Chaiman A.Shanmugam Road,Sivakasi-626 123 Tamil Nadu.India. Phone -04562 230916, 94421 71616 787000916, 17 Email – <a href="mailto:info@arasanaluminium.com">info@arasanaluminium.com</a> Web – <a href="http://www.arasanaluminium.com">www.arasanaluminium.com</a>	
Trade name	<b>12 NL</b>	
<b>2. COMPOSITION /INFORMATION ON INGREDIENTS</b>		
NAME	CAS No	UN NO
Aluminium	7429-90-5	1309
MTO	64742-81-0	1223
<b>3.HAZARDS DENTIFICATION</b>		
Human health	- No data available	
Environment	- No data available	
<b>Physical</b>		
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 confirmed environment		
<b>Chemical</b>		
Prolonged contact with water may results in reaction releasing flammable hydrogen gas -Fire and explosion risk		
Will react with oxidizing agent or acids or alkalis, causing heat and hydrogen release- Fire and explosion risk		
Can react violently with halogenated hydrocarbons Explosion risk		



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<b>4. FIRST AID MEASURES</b>		
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.		
<b>5. FIRE FIGHTING MEASURES</b>		
Suitable extinguishing Agents		
<ul style="list-style-type: none"><li>➤ Gently smother burning material with dry sand</li><li>➤ Use foam or carbon -di-oxide cylinder</li></ul>		
Unsuitable extinguishing Agents.		
<ul style="list-style-type: none"><li>➤ Halogenated fire extinguisher</li><li>➤ Water</li></ul>		
Special hazards caused by the substance, its products of combustion or resulting gases		
<ul style="list-style-type: none"><li>➤ Dust can combine with air to form an explosive mixture</li><li>➤ Contact with water releases flammable gas (hydrogen)</li></ul>		
<b>6.ACCIDENTAL RELEASE MEASURES</b>		
Personal precautions		
<ul style="list-style-type: none"><li>➤ Avoid formation of dust clouds</li><li>➤ Keep away ignition sources</li><li>➤ Avoid inhalation of solvent vapours in all circumstances.</li></ul>		
Environmental protection		
Do not allow product to enter sewage system or water course (possible reaction releasing hydrogen)		



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Measures for cleaning/collection spillage: <ul style="list-style-type: none"><li>➤ Clean the material using non sparking tools (eg.Natural fiber brown).Avoid formation of dust clouds.</li><li>➤ If dry, stored in closed drums in dry condition</li><li>➤ If wet, stored in open topped container in an area with good ventilation and free from ignition sources.</li></ul>		
<b>7. HANDLING AND STORAGE</b>		
Handling <ul style="list-style-type: none"><li>➤ Avoid generation of dust clouds</li><li>➤ Avoid source of sparks or other source of ignition</li><li>➤ Protect against static electricity</li><li>➤ Use suitable explosion proof equipment and spark –proof tools</li><li>➤ Keep work area clean</li><li>➤ Avoid accidental contact with reactive materials- acid or chemicals-oxidiser etc</li><li>➤ Use non sparking tools</li></ul> Storage <ul style="list-style-type: none"><li>➤ Keep the Material in the container Always air tight</li><li>➤ If the drums are in open condition, volatile Mater will be evaporated and the properties of the Material will be changed.</li><li>➤ The area should be suitably marked to indicate the presence of an ignitable dust</li><li>➤ Avoid sparks or other source of ignition</li><li>➤ Keep area clean and avoid spillage</li><li>➤ Do not store with reactive materials</li></ul>		
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
Exposure limits  Work place Long-term exposure (TLV) – 8 hrs TWA – 10 mg/m <sup>3</sup>  Exposure controls Respiratory protection A suitable face mask is recommended if regular exposure is un avowable .if work place concentration requires the use of respiratory protection – use filter types  Eye protection Not normally required. Irritation may occurs as with any dust entering the eye – wash out immediately if it occurs.  Skin contact Wash of with plenty of water – remove the contaminated clothing		



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<b>9. PHYSICAL AND CHEMICAL PROPERITY</b>		
Physical state : Semi -Solid		
Form : Paste		
Color : Silver white		
Odour : Solvent smell		
P.H : NA		
Boling temperature : 2467 °C (Aluminium) 145 °C-205 °C (MTO)		
Melting temperature : 660 °C (Aluminium)		
Flash Point : 35 °C		
Auto Flammability : 252 °C (MTO)		
Explosive prosperity : No data available		
Minimum Ignition tempt : Cloud 610 °C Layer 320 °C		
Oxidizing properties : Will react exothermically if mixed with a strong oxidizing Substance and liquid		
Real density : 1.4-1.6gm/cm <sup>3</sup>		
Solubility : insoluble in water		
<b>10.STABILITY AND REACTIVITY</b>		
Stability Stable at room temperature		
Reactivity May react with acids or oxidizing agents or halogenated hydrocarbons Prolonged contact with water can cause a reaction releasing hydrogen gas.		
<b>11.TOXICOLOGICAL INFORMATION</b>		
Acute Toxicity No data available		
Chromic toxicity No chromic effects known		
TLV – 10mg/m <sup>3</sup> (General dust limit)		



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<b>12. ECOLOGICAL INFORMATION</b>		
Mobility /Degradability ➤ Will convert to Aluminium oxide (alumina) during prolonged contact with water		
Ecotoxicity ➤ Aluminium powder is not ecotoxic ➤ Generally not hazardous to water		
<b>13. DISPOSAL CONSIDERATIONS</b>		
Waste Dispose of in line with regional or national regulations. Avoid product entering water course/sewer system		
<b>14. TRANSPORT INFORMATION</b>		
Transport over land ADR/RID class	- 4.1	Correct technical name: aluminium Flammable solid organic N.O.S (Aluminium paste) UN No.1325 Ems.No.F-G.S-G
Transport oversea IMDG class	- 4.1	
Transport over ICAO/IATA class	n - 4.1	
Packing group	- II	
<b>15. REGULATORY INFORMATION</b>		
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 -7/8,43.6	S-7/8-keep container tightly closed and dry	
	S-43.6-in case of fire use sand –NEVER use water	
<b>16. OTHER INFORMATION</b>		
The information on this data sheet represents our current data to proper use in handling of this product under normal conditions, and only as a safety guideline, not as a product specification. No warranty, either expressed or implied, is hereby made. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.		