



## 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 Symbal CAS No EINECS No	Aluminium powder(coated) Al 7429-90-5 231-072-3	
Supplier Name and Address	The Arasan Aluminium Industries (P) Ltd. 102 A Chairman A Shanmugam Road SIVAKASI 626123 Tamil Nadu.. India. Phone -04562 230916,9442171616,7867000916,917 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>T90</b>	
<b>2. COMPOSITION /INFORMATION ON INGREDIENTS</b>		
NAME	CAS No	UN NO
Aluminium	7429-90-5	1309
<b>3.HAZARDS IDENTIFICATION</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></ul>		
Unsuitable extinguishing Agents.		
<ul style="list-style-type: none"><li>➤ Carbon dioxide</li><li>➤ Foam</li><li>➤ Dry chemical powder</li><li>➤ Halogenated Hydro carbon fire extinguisher</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></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>➤ Do not flush with water</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>➤ Store in the supplied container until used.</li><li>➤ Keep in closed dry room or store</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	: Solid	
Form	: Flakey particle	
Color	: Grey	
Odour	: odour less	
P.H	: NA	
Boling temperature	: 2467 °C	
Melting temperature	: 660 °C	
Flash Point	: NA	
Auto Flammability	: Product is not self igniting	
Explosive prosperity	: 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 <sup>3</sup>	
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	: 2.7 gm/cm <sup>3</sup>	
Solubility	: insoluble in water and organic solvent	
<b>10.STABILITY AND REACTIVITY</b>		
Stability	Stable when dry. No decomposition	
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 <ul style="list-style-type: none"><li>➤ Will convert to Aluminium oxide (alumina) during prolonged contact with water</li></ul>		
Ecotoxicity <ul style="list-style-type: none"><li>➤ Aluminium powder is not ecotoxic</li><li>➤ Generally not hazardous to water</li></ul>		
<b>13. DISPOSAL CONSIDERTIONS</b>		
Waste: Dispose of in line with regional or national regulations. Avoid product entering water coarse/sewer system		
<b>14.TRANSPORT INFORMATION</b>		
Transport over land ADR/RID class	- 4.1	Correct technical name: aluminium Powder. coated. UN No – 1309 Ems No – F-G, S-G
Transport oversea IMDG class	- 4.1	
Transport over ICAO/IATA class	- 4.1	
Packing group	- II	
<b>15.REGULATORY INFORMATION</b>		
Label : 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.		