



## 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>FF</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)		

