

Revision No:006 MARCH 2022	MATERIAL SAFTY DATA SHEET MSDS No:002			
1. PRODUCT AND COMPANY IDENTIFICATION				
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 NaduIndia. Phone -04562 230916,9442171616,7867000916,917 Email – info@arasanaluminium.com Web – www.arasanaluminium.com			
Trade name	AAA LD			
2. COMPOSITION /INFORM	MATION ON INGREDIENTS			
	CAS No UN NO 7429-90-5 1309			
	- No data available - 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 confirmed environment				
Chemical				
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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4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing Agents

> Gently smother burning material with dry sand

Unsuitable extinguishing Agents.

- Carbon dioxide
- > Foam
- > Dry chemical powder
- ➤ Halogenated Hydro carbon 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)

6.ACCIDENTAL RELEASE MEASURES

Personal precautions

- Avoid formation of dust clouds
- Keep away ignition sources

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:

- > Clean the material using non sparking tools (eg.Natural fiber brown). Avoid formation of dust clouds.
- Do not flush with water

7. HANDLING AND STORAGE

Handling

- Avoid generation of dust clouds
- Avoid source of sparks or other source 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- acid or chemicals-oxidiser etc
- Use non sparkling tools

Storage

- Store in the supplied container until used.
- > Keep in closed dry room or store
- > The area should be suitably marked to indicate the presence of an ignitable dust
- Avoid sparks or other source of ignition
- Keep area clean and avoid spillage
- Do not store with reactive materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Work place

Long-term exposure (TLV) – 8 hrs TWA – 10 mg/m³

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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9. PHYSICAL AND CHEMICAL PROPERITY					
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 presen	<u>o</u>			
	Lower explosive limit (LEL) – 400	gm/m ³			
Minimum Ignition tempt	: Cloud 610°C				
3	Layer 320°C				
Oxidizing properties	: Will react exothermically if mixed	d with a strong oxidizing			
	Substance and liquid				
Real density	: 2.7 gm/cm ³				
Solubility	: insoluble in water and organic solvent				
10.STABILITY AND REACT	TVITY				
Stability					
Stable when dry. No decomp	osition				
Reactivity					
May react with acids or oxidizing agents or halogenated hydrocarbons					
Prolonged contact with water can cause a reaction releasing hydrogen gas.					
11.TOXICOLOGICAL INFORMATION					
Acute Toxicity	100,011014				
No data available					
Chromic toxicity					
No chromic effects known					
TLV – 10mg/m³ (General dus	t limit)				



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12.ECOLOGICAL INFORMA	ATION			
Mobility / Degradability				
Will convert to Alumin	ium oxide (alu	mina) during	prolonged of	contact with water
Ecotoxicity				
Aluminium powder is				
Generally not hazardo				
13. DISPOSAL CONSIDER	ITONS			
Waste:				
Dispose of in line with region		-		
Avoid product entering water		system		
14.TRANSPORT INFORMA			0 11	
Transport over land ADR/RID class		- 4.1		chnical name: aluminium
Transport oversea IMDG class - 4.1 Powder. coated.				
Transport over ICAO/IATA class - 4.1 UN No - 1309				
Packing group	Packing group Ems No – F-G, S-G			F-G, S-G
Label: classification -4.1 Fla				
Laber: Classification -4.1 Fla	IIIIable solius			
Risks				
Risk Phrase -10,15	R-10- Flammable			
KISK I III d3C T0, T3	R-15-contect with water librates extremely flammable gas			
	10 00110	oot with wat	or morates er	arionaly naminable gas
Safety				
Safety phrase -7/8,43.6	S-7/8-keep container tightly closed and dry			
3,	S-43.6-in case of fire use sand –NEVER use water			
16. OTHER INFORMATION				

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.