



The Arasan Aluminium Industries (P) Ltd.

Revision No:007 MARCH 2022	MATERIAL SAFTY DATA SHEET	MSDS No:002	
1. PRODUCT AND COMPANY IDENTIFICATION			
Product Name	Aluminium paste (Mixture of Aluminium powder coated and Diethylene glycol)		
Chemical Symbol	Al	Di Ethylene glycol	
CAS No	7429-90-5	111-46-6	
EINECS No	231-072-3	203-872-2	
Supplier Name and Address	The Arasan Aluminium Industries (P) Ltd. 102 Chairman A.Shanmugam Road.Sivakasi-626 123 Tamil Nadu, India. Phone - 7867000916 7867000917, 9442171616 Email – info@arasanaluminium.com Web – www.arasanaluminium.com		
Trade name	DG 90		
2. COMPOSITION /INFORMATION ON INGREDIENTS			
NAME	CAS No	UN NO	COMPOSITION (%)
Aluminium	7429-90-5	1309	80
Diethylene glycol	111-46-6	--	20
3.HAZARDS DENTIFICATION			
Human health	- No data available		
Environment	- No data available		
Physical	If suspended in air (dust cloud), fine powder can be ignited in yhe presence of an ignition source and cloud pose an explosion risk in a confirmed environment		
Chemical	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: 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.		
5. FIRE FIGHTING MEASURES		
Suitable extinguishing Agents		
<ul style="list-style-type: none">➤ Gently smother burning material with dry sand.➤ Use foam or carbon-di-oxide cylinder.		
Unsuitable extinguishing Agents.		
<ul style="list-style-type: none">➤ Water.➤ Halogenated Hydro carbon fire extinguisher.		
Special hazards caused by the substance, its products of combustion or resulting gases		
<ul style="list-style-type: none">➤ Dust can combine with air to form an explosive mixture		
6.ACCIDENTAL RELEASE MEASURES		
Personal precautions		
<ul style="list-style-type: none">➤ Keep away ignition sources.➤ Avoid inhalation of solvent vapors in all circumstances.		
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">➤ Clean the material using non sparking tools (eg.Natural fiber brown).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.		
7. HANDLING AND STORAGE		
Handling <ul style="list-style-type: none">➤ Avoid formation of evaporation of solvent and dust clouds➤ Avoid source of sparks or other source of ignition➤ Protect against static electricity➤ Use suitable explosion proof equipment and spark proof tools as well as solvent resistant equipment➤ close containers carefully after use➤ Avoid accidental contact with reactive materials- acid or chemicals-oxidiser etc➤ Use non sparking tools Storage <ul style="list-style-type: none">➤ Store in the supplied container until used➤ If the drums are in open condition, volatile Mater will be evaporated and the properties of the Material will be changed.➤ The area should be suitably marked to indicate the presence of an ignitable dust➤ Avoid sparks or other source of ignition➤ keep container tightly closed➤ Do not store with reactive materials.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure limits Work place Long-term exposure (TLV) – 8 hrs TWA – 5 mg/m ³ 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 : Semi Solid		
Form : Paste		
Color : Silvery paste		
Odour : solvent smell		
P.H : NA		
Boling temperature : 2467 °C (Aluminium) 245 °C (Di ethylene glycol)		
Melting temperature : 660 °C (Aluminium) -10.5 °C (Di ethylene glycol)		
Flash Point : -- 124 ° C (Di ethylene glycol)		
Auto Temperature : -- 229 °C (Di ethylene glycol)		
Auto Flammability : Product is not self igniting		
Explosive prosperity : 40gm/m ³		
Minimum Ignition tempt : No data available		
Oxidizing properties : Will react exothermically if mixed with a strong oxidizing Substance and liquid		
Real density : 2.7 gm/cm ³ (Aluminium) 1.12 g/cm ³ (Di ethylene glycol)		
Solubility : insoluble in water Soluble in water(Di ethylene glycol)		
10.STABILITY AND REACTIVITY		
Stability Stable when dry. No decomposition		
Reactivity May react with acids or oxidizing agents or halogenated hydrocarbons		
. 11.TOXICOLOGICAL INFORMATION		
Acute Toxicity No data available		
Chromic toxicity No chromic effects known		
TLV – 5 mg/m ³		



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12.ECOLOGICAL INFORMATION		
Mobility /Degradability <ul style="list-style-type: none">➤ Will convert to Aluminium oxide (alumina) during prolonged contact with water		
Ecotoxicity <ul style="list-style-type: none">➤ Aluminium powder is not ecotoxic➤ Generally not hazardous to water		
13. DISPOSAL CONSIDERTIONS		
Waste Dispose of in line with regional or national regulations. Avoid product entering water coarse/sewer system		
14.TRANSPORT INFORMATION		
Transport over land ADR/RID class	- 4.1	Correct technical name: Flammable solid, organic N.O.S (Aluminium paste)UN No – 1325 Em S. No – F-G, S-G
Transport oversea IMDG class	- 4.1	
Transport over ICA0/IATA class	- 4.1	
Packing group	- II	
15.REGULATORY INFORMATION		
Label : classification -4.1 Flammable solids		
Risks		
Risk Phrase -10,22	R-10- Flammable	
	R-22- Harmfull if swallowed	
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	
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.		