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	MATERIAL SA	FETY DATA SH	IEET	
1 DDODUCE LVD CO			REV # : 2 (Jan - 2020	
1. PRODUCT AND CO			. '	
Product Name		Aluminium Powder Atomised(Non Lamellar)		
Application	Mining Explosives, R	Mining Explosives, Refractories, Brake Lining, Thermit Application etc.		
Supplier Name & Address	MMP INDUSTRIES LIMITED Regd. Office: 211, Shrimohini, 345, Kingsway, Nagpur – 440 001. Ph # 0712-2524645/2533585 Corporate office: B-24, MIDC Hingna, Nagpur – 440016 Ph #07104 668000 Email: sales@mmpil.com Website: www.mmpil.com			
	(Grades		
		zed Powders		
MMP-1030				
	M	MP-3060		
MMP-1000				
	M	MP-1500		
	M	MP-2000	-	
	M	MP-3000		
	MN	AP-3000R		
	M	MP-4000		
# For specification det			om .	
2. COMPOSITION/INF	ORMATION ON ING	REDIENTS		
NAME	CAS NO.	EINECS NO	+ COMPOSITION	
Aluminium Powder	7429-90-5	231-072-3	100%	
Stearic Acid	57-11-4	200-313-4	As per Customer's requirement	
3. HAZARDS IDENTIF				
3.1. Skin contact:	Irritation, dermatitis on prolonged contact.			
3.2. Eye contact:	Irritation.			
3.3. Inhalation:	NA			
Explosion:				
3.4. Dust cloud:	In presence of spark, dust cloud may result in explosion as such strictly avoid dust dispersal.			
Fire:				
3.5. Gas evolution:	Powders in presence of excessive moisture/ water may result in evolution of hydrogen gas which can form explosive mixture with air & ignition source.			



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Works: Village Maregaon, Post: Shahpur, Dist. Bhandara-441906, India. Tel: (07184) 282620

Works: D-15/2 & D-16, MIDC Umred, Dist. Nagpur - 441 203, India. Tel: 7066012324

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4. FIRST AID MEASURES

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4. FIRST AID IV		
4.1. Skin Contac	Flush with soap & water.	
4.2. Eye Contact		
	flush eyes with ample water with eyelids held open.	
4.3. Ingestion	Low toxicity risk. Do not induce vomiting.	
4.4. Inhalation	Isolate the exposed person to fresh air & provide rest.	
	g first aid treatment, seek medical attention and advice.	
5. FIRE FIGHT	ING MEASURES	
Unusual Fire an	d Use Class "D" dry chemical extinguishing agent or other suitable extinguishing	
Explosion Hazai	material such as dry sand. Do not use class "A", "B" or "C" extinguishers or	
•	halogenated agents. Do not use water. Water and burning finely divided aluminium	
	react violently forming hydrogen gas and aluminium oxide. Aluminium particles	
	will burn at a very high temperature as a mass of material will be potentially	
	explosive, if loosened and dispersed in air. At no point of time, allow a dust cloud to	
	be formed. This material is potentially explosive when loosened and dispersed in air.	
	Do not use vacuum cleaners.	
Special Fire Figl Procedure	Gently cover the burning powder and form a ring around it with the extinguishing agents recommended., such as Dry Sand and Class D—dry chemical powder. Do not actually mix the agent with the burning powder and do not disturb the powder until it cools to ambient temperature. At no point of time allow dust clouds to be formed. Fine fighters should wear self-contained breathing apparatus and protective clothings. Do not use pressurised Fire Extinguishers over the burning Powders.	
	L RELEASE & MEASURES	
> A	Avoid any source of ignition (open flames, heat/static discharges) during handling.	
	Do not smoke.	
	11 old formation of dust blodd.	
	Product can release vapours (in presence of Additives) that can form explosive mixtures with air.	
	Use Protective personal equipments.	
Dispose contaminated material as waste (Ref. Sr. no.13).		
7. HANDLING	AND STORAGE	
	Store away from open fire sources of ignition, heat & humidity store at ambient temperature in a	
	well-ventilated area with flame proof electrical fittings.	
	Store away from oxidizing agents/acids & alkalis or combustible materials.	
b 0	State away from Originia agents/actus & dikans of compustible materials.	

8 EXPOSURE CONTROL S/PERSONAL PROTECTION	
	TAT

Keep containers tightly closed in cool & dry place.

Strictly avoid spark generating tools.

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Exposure Controls:	
Respiratory Protection	Use specialty respirators suited to filter fine dusts.
Eye protection	Use safety goggles to avoid the risk of aluminium powder contact with eye.
Skin Contact	Use protective clothing's/impervious gloves. Use skin protection cream.
Clothing	Use pure cotton clothing to prevent static charge build-up

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9. PHYSICAL AND CHEM	IICAL PROPERTIES		
Characteristics/Item	Al. Powder Atomized (Non Lamellar)	Stearic Acid	
Atomic Weight	26.97	N/A	
Physical state	Solid	Solid	
Appearance	Silvery Grey powder	Free flowing Waxy Flakes	
Odour	Coated powders have fatty acid odour		
pH at 27 *C	N/A	N/A	
Vapour Density	Heavier than Air	N/A	
Evaporation Rate	Slower than butyl acetate	N/A	
Melting Point	660*C	58-62*C	
Boiling Point	2467*C	361*C	
Flash Point	N/A	N/A	
Auto-ignition Temperature	N/A	N/A	
Auto-flammability	Not Flammatory	N/A	
Relative Density (gm/cc ³)	2.70	0.84	
Bulk Density (gm/cc ³)	0.9 to 1.2 (As per type)	N/A	
Solubility in water	Insoluble	Insoluble	
Oxidizing Properties	N/A	Incompatible with oxidizers & reducing agents	
Explosive Property	Product is non-hazardous however, it forms an explosive dust/air mixture	Can heat spontaneously	
Explosion Limit	LEL 30 g/m ³	N/A	
10. STABILITY AND REA	CTIVITY		
Stability	Stable at room temperature.		
Reactivity	a. Reacts with acids, alkalis and oxidising agents.b. Prolonged contact with water can cause a reaction by releasing hydrogen gas.		
11. TOXICOLOGICAL IN			
Acute Toxicity	Data not available		
Chronic Toxicity	Data not available		
Irritation	None		
12. ECOLOGICAL INFOR	MATION		
Mobility/Degradability	Will convert to Aluminium Oxide during prolonged contact with water. Inform local authority in case of dispersal of powders in water course or sewer system.		
Eco-toxicity	Not an eco-toxic material.		



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13. DISPOSAL CONSIDER	AATIONS	
Waste	a. Dispose in line with regional or national regulations.b. Avoid product entering watercourses/sewer systems as there is a chance for Hydrogen evolution.	
14. TRANSPORT INFORMATION		
Transport over sea IMDG class	4.1	
Packaging group	11	
Correct technical name	Aluminium Powder Atomized (Non Lamellar)	
UN No.	1309	
IIEms No.	F-G, S-G	
15. REGULATORY INFORMATION		
Label	FLAMMABLE SOLID	
UN classification	4.1 Flammable solids	
Risk		
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	

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

S-43.6- In case of fire use sand - NEVER use water

16 A REFERENCES

- Aluminium Association's Bulletin TR.2
 - "Recommendations for storage and handling of Aluminium Powders & Paste".
- National Fire Protection Association's NFPA -484
 - "Standard for combustible metals."





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