

SAFETY DATA SHEET

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Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Colloidal Alumina Polishing Slurry Product Name: Lapmaster METS-COLL-ALM-XXXX

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.2 Label elements

GHS Labeling

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.3 Other hazards

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Non-Hazardous Ingredients

Component	CAS-No	Weight Percent	
Aluminum Oxide	1344-28-1	> 50%	
Water	7732-18-5	> 40%	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	: Remove soiled/soaked clothing immediately. If you do not feel well, seek medical attention (show the label where possible).
Inhalation	: If inhaled, move person to fresh air. If they are having difficulty breathing, give oxygen (if available). Consult a doctor if symptoms continue or get worse.

	Skin contact : In case of contact with skin, wash off immediately with soap and plenty of water. Remove all clothing including shoes. Consult a doctor if you develop skin irritation.		
	Eye contact	: Rinse the affected eye immediately with plenty of water while keeping the unaffected eye well protected. Consult a doctor if you develop eye irritation.	
	Ingestion	: Seek medical attention. Make sure to show doctor the package and/or label.	
5.	FIRE FIGHTING MEASUR	ES	
5.1	Extinguishing media		
	Suitable extinguishing media	: Water spray jet; foam; dry powder; carbon dioxide; product itself is non-combustible; fire extinguishing method of surrounding areas must be discussed.	
5.2	Special hazards arising from th	e substance or mixture	
	Specific hazards during fire fighting	: None known	
5.3	Advice for fire-fighters		
	Protective equipment	: Closed - full protective clothing (coat and pants) including helmet. Use self-contained breathing apparatus.	
	Further information	: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.	
6.	ACCIDENTAL RELEASE MEASURES		
6.1	.1 Personal precautions, protective equipment and emergency procedures		
	Personal precautions	: Refer to Section 8: Exposure Controls/Personal Protection.	
6.2	Environmental precautions		
	Environmental precautions	: Do not allow entry to drains, waterways, or soil.	
6.3	Methods and materials for cont	ainment and cleaning up	
	Methods for cleaning up	: Pick up with liquid binding materials and if necessary fill in containers capable of being locked. Containers in which split substance has been collected must be adequately labeled. Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
6.4	Reference to other sections		
	Additional advice	 Information regarding safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13. 	
7.	HANDLING AND STORAG	SE	
7.1	Precautions for safe handling		
	Advice on safe handling	: Provide good ventilation of working area (local exhaust ventilation if necessary). Wear respiratory protection when spraying.	

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Advice on protection against fire and explosion	: Observe the general rules of industrial fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep only in unopened original container. Use polyolefin containers. Do not use steel containers.
Further information on storage conditions	: Keep container tightly closed and dry in a cool, well-ventilated place. Protect against frost. The product after freezing is no longer usable.

Advice on common storage

: Do not store or transport together with food stuffs.

7.3 Specific end uses

: Determined by user

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No	Control Parameters	Basis
Aluminum Oxide	1344-28-1	PEL: 15 mg/m ³ - Total dust	OSHA
		PEL: 5 mg/m ³ - Respirable dust	OSHA
		TLV: 10 mg/m ³ (8 hours) - Total dust	ACGIH
		TLV: 1 mg/m ³ (8 hours) - Respirable	ACGIH
		dust	

8.2 Exposure controls

Engineering measures

Provide good ventilation of working area (local exhaust ventilation if necessary).

Personal protective equipment

Respiratory protection	: Use respiratory protection in case of insufficient exhaust
Hand protection	: Break through time: >10 min. Glove thickness: > 0,4 mm For short-term exposure (splash protection): Nitrile rubber gloves Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
Eye protection	: Tightly fitting safety glasses
Skin and body protection	: Protective clothing
Hygiene measures	: When using do not eat, drink or smoke. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream.
Protective measures	: Avoid contact with eyes and skin. Observe the usual precautions for handling chemicals.
Environmental exposure contro	ols
General advice	: Do not allow entry to drains, water courses or soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Form Color Odor	: Liquid : White : Odorless
Safety data Upper/lower flammability Vapor pressure Vapor density pH Relative density Freezing point Solubility(ies) Boiling point/Boiling range	 Not determined Not determined Not determined app. 3.5 - 4.4 at 68 °F (20 °C) app. 1.1 - 1.3 g/cm³ at 68 °F (20 °C) app. 32 °F (0 °C) Miscible in all proportions approx. 212 °F (100 °C)

Flash point	: Water-based material containing no combustible components. Compatible with extinguishing agents.
Evaporation rate	: Not determined
Flammability (solid, gas) Partition coefficient: n-octanol/water	: Not determined : Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Viscosity	: Not determined

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY		
10.1 Reactivity		

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Protect from freezing or frost

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

10.6 Hazardous decomposition products

Hazardous decomposition	: No decomposition if stored and applied as directed.
products	

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Data for Aluminum Oxide (1344-28-1)	
Acute oral toxicity	: LD50 > 5000 mg/kg (rat)
Acute inhalation toxicity	: No further relevant information available.
Acute dermal toxicity	: No further relevant information available.
Skin irritation	: Prolonged and/or repeated skin contact may cause irritation.
Eye irritation	: Short time, reversible irritation
12. ECOLOGICAL INFORMATION	ON

12.1 Toxicity

Aquatic toxicity	: No further relevant information available.
12.2 Persistence and degradability	
Biodegradability	: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).
12.3 Bioaccumulative potential	: No further relevant information available.

12.4 Mobility in soil

: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No further relevant information available

Additional ecological	: No further relevant information available.
information	

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Additional information	: Neutralize Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
Contaminated packaging	Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14. TRANSPORT INFORMATION

DOT	: Not dangerous goods	
ΙΑΤΑ	: Not dangerous goods	
IMDG	: Not dangerous goods	
TDG	: Not dangerous goods	

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States : The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the substance(s) that makes/make up this material or for the material itself.

16. OTHER INFORMATION

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm3)

Further information

Further information

: Observe national and local legal requirements

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