ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street Avon, New York 14414-9409 (585) 226-6177

MSDS No.: MM0010 MM0022 Effective Date: January 12, 2007

SECTION V

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE **Product** Magnesium Metal, Ribbon, Chips, Turnings CHEMTREC Health 0 Chemical 800-424-9300 Magnesium Metal Synonyms Day 585-226-6177 Fire 2 **Formula** Mg Reactivity **NFPA** HMIS **Unit Size** up to 2.5 Kg. HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE C.A.S. No. 7439-95-4 2 0 3

SECTION II	SECTION II INGREDIENTS OF MIXTURES				
Principal Component(s)		%	TLV Units		
Magnesium metal		99.8%	See Section V.		
DANGER! FLAMMABL	E SOLID!				
DANGEROUS WHEN W	ET. KEEP AWAY FROM ALL IGNITION	SOURCES.			

SECTION III	PHYSICAL DATA		
Melting Point (°F)	1202°F (651°C)	Specific Gravity (H ₂ O = 1)	1.74 at 20°C
Boiling Point (°F)	2030°F (1110°C)	2030°F (1110°C) Percent Volatile by Volume (%)	
Vapor Pressure (mm Hg)	1 mm at 621°C	Evaporation Rate (n-Butyl acetate =1)	Non-volatile.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Negligible (Decomposes-reacts with water to yield magnesium oxide.)		
Appearance & Odor	Silvery gray metal ribbon, chips, turnings; no odor.		

SECTION	N IV FIRE AND EXPLOSION HAZARD DATA					
Flash Point		Flammable Limits in Air	Lower	Upper		
(Method Used)	1175°F (636°C)	% by Volume N/A				
Extinguisher Media		DO NOT USE WATER. Do NOT use foam, halogenated extinguishing agents, or carbon dioxide. Smother with dry graphite, talc, dry sand, G-1 powder, purple K.				

SPECIAL FIREFIGHTING **PROCEDURES**

Do not use foam, carbon tetrachloride, or carbon dioxide. Manual application of water should be conducted with care to prevent contact with burning or molten magnesium. Protect eyes and skin against flying particles. Avoid direct viewing of magnesium fires as eye injury may result. Firefighters should wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing when appropriate. Wear fire glasses when viewing magnesium flame.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 138)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustible metal. Easily ignited and burns with intense heat and brilliant white flame. Powders form explosive mixtures with air which may be ignited by a spark. In finely divided form, will react with water and acids to release hydrogen; also hazardous in such form with chlorine, bromide, iodine, oxidizing agents and acids.

Autoignition Temperature: 510°C (950°F).

D.O.T. Magnesium, 4.1, UN1869, PG III, Ltd Qty ≤ 5 Kg. Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTIO	IN V	لللب	CALIN NAZAI	IDDAIA	MM0022
Threshold	I Limited V	IN	one established. (AC 984) 10 mg/m ³ (TWA		nesium Oxide Fume: ACGIH TLV 5 mg/m ³ (TWA).
oxide fume nausea, vor burns and o	miting and mustorneal abrasion	in burning car scular pain. skin:	halation and should be n result in metal fume to Onset of symptoms o	e treated as a nuis fever. The tempo ccurs 4-12 hours a m embedded in th	ust should be a low health risk by sance dust. Exposure to magnesium rary symptoms can include fever, chills, after exposure. EYES: May cause le skin may produce lesions that resist rgans: None known.
Emergence Eirst Aid I	cy and Procedure	<u>. IN</u>	IGESTION: Call phys	sician or Poison (Control Center immediately. Induce
anything by with water the Remove contact attention. In give oxygen	mouth to an for at least 15 ontaminated cl	unconscious minutes, lift othing. Flus Remove to al attention.	s person. EYES: Ching lower and upper each thoroughly with miles of resh air. If not breath	eck for and removeyelids occasionad soap and water athing, give artifici	nedical personnel. Never give ve contact lenses. Flush thoroughly lly. Get medical attention. SKIN: If irritation occurs, get medical al respiration. If breathing is difficult,
SECTIO	N VI	R	EACTIVITY DA		
Stability	Unstable Stable	Х	Conditions to A		ngerous when wet. Avoid exposure to isture, heat, sparks and flame.
Incompati (Materials		Magn	Magnesium will react with water and acids to release hydrogen; also hazardous with chlorine, bromine, iodine, oxidizing agents and acids.		
Hazardous Decomposition Products Hydrogen will be produced - when exposed for long time to water and acids.					
Hazardous	Polymeriza	tion	Conditions to A	Avoid	
May Occu	r Will N	ot Occur		No	t applicable.
		X			
SECTIO	N VII	S	PILL OR LEAK	PROCEDU	IRES
Steps to be taken in case material is released or spilled Recover for use if not contaminated. Do not use water to clean up spill. Use appropriate safety equipment - clean up using non-sparking tools no smoking or open flames in the area. Avoid dusting. Clean dry product may be returned to dry container and sealed against moisture or place in a suitable container for disposal. Wet or contaminated material should be placed in vented containers and moved to a remote area for disposal by burning.					
Waste Dis	posal Met	hod Dis	charge, treatment, or dis ese disposal guidelines a	posal may be subject re intended for the d	et to Federal, State or Local laws. isposal of catalog-size quantities only.
			spose of in an approventract with a licensed		in an approved chemical landfill or ervice.
SECTIO	N VIII	S	PECIAL PROT	ECTION INI	FORMATION
Respiration Pr (Specify Type)		None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	n Local Ex		If dusty. If dusty.	Special Other	No.
Protective	•	ical (General) F	ire-resistant.	Eye Protect	
Other Protective		ar appropria	te fire resistant clothir	ng (e.g. , gloves, oratures (950°F) w	coveralls, etc.) when exposing hich can cause ignition.
SECTIO			PECIAL PREC	, ,	men can cauco igimiem
Precautions to be Taken in Handling & Storing Keep container tightly closed when not in use. Store at room temperature in a dry place away from other combustibles in a metal cabinet. Avoid direct viewing of magnesium fires as eye injury may result Ground all handling and transferring operations.					
Other Preca	utions Read For la	label on containe boratory use only	r before using. Do not wear cor . Not for drug, food or househo	ntact lenses when working Id use. Keep out of reach	g with chemicals. of children.
			igh humidity storage of -up and good housek		d to corrosion of the product.
Revision N	o. 11 Da	ite 01/12/	07 Approved	James A. Be	ertsch Chemical Safety Coordinator JAB
					only as a supplement to other information gathered by

HEALTH HAZARD DATA

MM0022

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