Colonoa	K 77	East Park Drive awanda NY 14150 6781	IAL S	AFETY	DATA SHEET	SECTION V HEALTH HAZARD DATA
Science & Borea	/ 1/1	5) 874-6020			CC 30	Threshold Limited Value None established.
Laborat	ories ^{PC}	ence Kit & Boreal Box 5059 Boreat Laborati Fiero Lane 399 Vansickle Roa		MSDS N Effective		
San Luis Obispo CA 93403 St Catharines Ontario L2S 3T4						Effects of Overexposure Solid material w ⁱⁱⁱ cause skin and eye burns since it reacts with moisture to form caustic. Similarly, the fumes from burning calcium
SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE						are highly irritating to skin, eyes, and mucous membranes.
Product CALCIUM METAL CHEMTREC 800-424-9300 Health						
			Day 716-	226-6177 Em 2	Emergency and	
Ca					Reactivity 2	First Aid Procedures SKIN: Wipe excess metal from skin. Wash with soap and water. EYES: Flush with water for 15 minutes. Get prompt medical
Unit(s) Size 100 to 500 grams HAZARD RA			ZARD RATI		attention. INGESTION: Specific data is not available. Call	
C.A.S. No.	7440 70 0					physician imme _s tately.
SECTION		HAZARDOUS INGR	*			
Principal Hazardous Component(s) % TLV Units					TLV Units	SECTION VI REACTIVITY DATA
Calcium Metal: (CAS No. 7440-70-2)			99%	Not established	Stability Unstable Conditions to Avoid Stable X Unstable when exposed to moist atmosphere - heat.	
Magnesium Metal: (CAS No. 7439-95-4)			0.7%	Not established	Incompatibility Moisture from any source, alkali - metal hydroxides and carbonates.	
WARNING! FLAMMABLE SOLID - A FIRE HAZARD						(Materials to Avoid)
KEEP DRY AND WELL CLOSED. DANGEROUS WHEN WET.						Hazardous Calcium and water react to produce hydrogen. Burning calcium is
SECTION III PHYSICAL DATA						Decomposition Products self-sustaining and strongly reducing to adjacent media.
CLOUC AD the		$y(H_2O = 1)$	1.54 @ 20°C	Hazardous Polymerization Conditions to Avoid		
	Boiling Point (°F) 1487°C (2817°F) Percent Volat by Volume (°		Percent Volatil		Non-volatile (NA)	May Occur Will Not Occur X Not applicable.
Vapor Pressure (mm Hg)		10 mm @ 983°C	Evaporation Ra		Non-volatile (NA)	SECTION VII SPILL OR LEAK PROCEDURES
Vapor Density (Air=1) Not iisted				=1)		Steps to be taken in case Wear protective equipment and clothing. Collect spilled material for
Solubility in Water Caution: Reacts violently with water to produce hydrogen gas.					gas.	material is released or spilled reclamation or disposal in sealed containers. Avoid contact with water. Avoid inhalation of dust.
Lustrous, silver-white surface when freshly cut, tarnishes to grayish-white on exposure to					grayish-white on exposure to	water. Avoid initiation of dust.
Appearance & Odor air; no odor. SECTION IV FIRE AND EXPLOSION HAZARD DATA					Γ Δ	Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
Flash Point	1	Flammabl	e Limits in Air	1	ower Upper	Recycle or dispose of in an approved incinerator or contract with a licensed
(Method Used)	Non-flam	mable % by Volu	Ime NA			chemical waste disposal service.
Extinguisher Media	Use dry g	graphite, soda ash, powdered sodium chloride, sand, G-I powder.				SECTION VIII SPECIAL PROTECTION INFORMATION
SPECIAL FIREFIGHTING						(Specify Type) Normally hone needed. A NICSH-approved dust hiter mask if needed.
PROCEDURES			due e outre e o	h an Carbon Totrapharida	Local Exhaust Recommended Special No Ventilation Mechanical (General) Recommended Other No	
Do not use water or halogenated hydrocarbons such as Carbon Tetrachloride. Carbon dioxide and dry chemicals are ineffective. Wear a self-contained				re ineffective.	Wear a self-contained	Protective Gloves Rubber Eye Protection Chemical safety glasses.
breathing apparatus; wear goggles. USE: Special mixtures of dry chemical or lime is only ex inguishing agent to be used.			USE: Special	I mixtures of dry chemical	Other Protective Safety glasses, smock, apron, eye wash station and a fire extinguisher.	
						SECTION IX SPECIAL PRECAUTIONS
(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE NO. 40)						Precautions to be Taken
UNUSUAL FIRE AND EXPLOSION HAZARDS						in Handling & Storing Store in a cool, dry place. No smoking or open flames when opening container. Wash thoroughly after bandling
Calcium reacts with water to form the hydroxide and hydrogen. Mixed with air, the liberated hydrogen may present an explosion hazard. Explosion or violent					d hydrogen. Mixed with air,	Keep container tignaty closed when not in use.
the liberated hydrogen may present an explosion nazard. Explosion of violent reaction may take place if care is not exercised in selecting extinguishants applied to a calcium fire. Finely divided calcium is considered pyrophoric and will cause an explosion when an ignition source is applied. Moderate explosion hazard in intimate contact with very powerful oxidizing agents.					electing extinguishants	Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.
					considered pyrophoric and applied. Moderate	Store under kerosene or other neutral oil. Never store under halogenated hydrocarbons. Remove and wash contaminated clothing.
					erful oxidizing agents.	For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
						Dout No. No. Data survey Approved the second Chemical Salety
D.O.T. CALCIUM, 4.3, UN 1401						The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20						by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the

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safety and health of employees. * Hazardous Materials Industrial Standards.