

MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards



HMIS HAZARD RATINGS

HEALTH	2	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Not Regulated		
HAZARD CLASS / PKG GRP:	None / None	REF:	Not Applicable
IDENTIFICATION NUMBER:	None	LABEL:	None Required

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

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INSTANT POWDER KEGS

MANUFACTURER'S NAME Controlled Release Technologies, Inc.	EMERGENCY TELEPHONE NUMBER CHEM • TEL (800) 255-3924 Outside USA (813) 248-0573
ADDRESS (NUMBER, STREET, P.O. BOX) 12745 49th Street North	TELEPHONE NUMBER FOR INFORMATION (727) 572-7119
(CITY, STATE AND ZIP CODE) Clearwater, FL 33762-4604	DATE PREPARED: May 10, 2002 SUPERSEDES: October 17, 2000

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS <small>(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))</small>	CAS #	% <small>(OPTIONAL)</small>	OSHA PEL		ACGIH TWA		SARA	RQ
			PPM	MG/M ³	PPM	MG/M ³	TITLE III	LBS
Sodium hydroxide (a,b)	1310-73-2			2 C		2 C		1000
Sodium silicate	1344-09-8			not established				

(a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 5,000 lbs) or greater amounts, according to 40 CFR 302.

(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Breathing airborne particles or dust from mixing, spraying, sanding, grinding, etc. may cause severe irritation to respiratory tract. High alkalinity is corrosive to mucous membranes.	Remove affected person to fresh air, flush mouth and nasal passages with water repeatedly. If irritation persists, seek medical attention.
SKIN: Contact may cause severe irritation and painful burns on exposed skin.	Remove contaminated clothing; flush affected area with water; neutralize affected area with diluted vinegar or lemon juice; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
EYES: Contact with eyes will cause severe irritation and painful burns to eyes. High alkalinity is corrosive to eyes.	Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; seek immediate medical attention.
INGESTION: May cause gastric distress, stomach pains, vomiting and diarrhea. May cause painful, severe burns to gastro - intestinal tract.	Give large quantities of milk or water; DO NOT induce vomiting; give diluted vinegar, lemon juice, or orange juice. Never give anything by mouth to an unconscious person; seek medical attention.

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute effects are painful, severe burns to eyes, mucous membranes of the respiratory and gastro intestinal tracts; may contain substances which may be considered nuisance dusts which require a NIOSH approved respirator when airborne particulate exceeds maximum allowable limit. Chronic effects are painful irritation of eyes, skin, respiratory tract.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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Date: May 10, 2002**SECTION 4 - FIRE FIGHTING MEASURES**

FLASH POINT (METHOD USED) Non-flammable	NFPA RATING None	FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable
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EXTINGUISHING MEDIA
Carbon dioxide, water, water fog, dry chemical, chemical foamSPECIAL FIRE FIGHTING PROCEDURES
CAUTION - material is corrosive.UNUSUAL FIRE AND EXPLOSION HAZARDS
None**SECTION 5 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine and segregate product for reuse; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; store containers in cool, dry area. Keep this and other chemicals out of reach of children.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne particulate present in excess of maximum allowable concentrations due to operations such as mixing, spraying, sanding, buffing, etc. Refer to 29 CFR 1910.134 for regulations.

VENTILATION LOCAL EXHAUST: Recommended MECHANICAL (GENERAL): Yes	SPECIAL: None OTHER: None
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PROTECTIVE GLOVES: Neoprene or rubber gloves. EYE PROTECTION: Safety goggles with side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT Not applicable	SPECIFIC GRAVITY (WATER = 1) 7.83 lbs / gallon
VAPOR PRESSURE (MM Hg) Not applicable	pH 10.3
VAPOR DENSITY (AIR = 1) Not applicable	EVAPORATION RATE (WATER = 1) Not applicable
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) None
APPEARANCE AND ODOR White granular powder, characteristic odor	

SECTION 9 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Store in cool dry area
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INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None
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SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Do not flush to sanitary sewer or waterway. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.