



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS

**PRODUCT NAME: PULSAR® PLUS DRY CHLORINATOR BRIQUETTES**  
EPA Registration Number: 1258-1179

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Arch Chemicals, Inc.</b> 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204	REVISION DATE:	05/05/2006
	SUPERCEDES:	04/05/2002
	MSDS Number:	000000000844
	SYNONYMS:	None
	CHEMICAL FAMILY:	Hypochlorite
	DESCRIPTION / USE:	Sanitizer and Oxidizer
	FORMULA:	Not Applicable/Mixture

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	<b>Oxidizer, Toxic by inhalation., Corrosive, Eye and skin hazard, Lung toxin</b>
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Routes of Entry:	Inhalation, skin, eyes, ingestion
Chemical Interactions:	No known or reported interactions.
Medical Conditions Aggravated:	Asthma, respiratory and cardiovascular disease

### Human Threshold Response Data

Odor Threshold	Approximately 1.4 mg/m3 (based on odor threshold of chlorine)
Irritation Threshold	Approximately 13-22 mg/m3 (based on irritation threshold of chlorine)

### Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	0	1	
NFPA	3	0	1	OX



Immediate (Acute) Health Effects

Inhalation Toxicity: HARMFUL IF PRODUCT IS INHALED IN HIGH CONCENTRATIONS. CAUSES BURNS TO RESPIRATORY TRACT. Inhalation of dust or vapor from this product can be irritating to the nose, mouth, throat and lungs. In confined areas, mechanical agitation can result in high levels of dust, and reaction with incompatible materials (as listed in Section 10) can result in high concentrations of chlorine vapor, either of which may result in burns to the respiratory tract, producing lung edema, shortness of breath, wheezing, choking, chest pains, impairment of lung function and possible permanent lung damage.

Skin Toxicity: CAUSES SKIN BURNS. Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage.

Eye Toxicity: CAUSES BURNS TO EYES. Severe irritation and/or burns can occur following eye exposure. Direct contact may cause impairment of vision and corneal damage.

Ingestion Toxicity: MAY BE FATAL IF SWALLOWED. CAUSES BURNS TO DIGESTIVE TRACT. Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration or perforation. Due to the corrosive nature of this product, ingestion may be fatal.

Acute Target Organ Toxicity: This product may be severely irritating and/or corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and the upper respiratory tract.

Prolonged (Chronic) Health Effects

Inhalation: Repeated inhalation exposure may cause impairment of lung function and permanent lung damage.

Skin Contact: Effects similar to those from acute exposure. Effects secondary to tissue destruction may also occur upon prolonged or repeated exposure.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

Chronic Target Organ Toxicity: None known

Supplemental Health Hazard Information : No additional health information available.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
CALCIUM HYPOCHLORITE	7778-54-3	60 - 80
SODIUM CHLORIDE	7647-14-5	10 - 20
CALCIUM CHLORATE	10137-74-3	0 - 5



CALCIUM CHLORIDE	10043-52-4	0 - 5
CALCIUM HYDROXIDE	1305-62-0	0 - 4
CALCIUM CARBONATE	471-34-1	0 - 4
1,2,4-BUTANETRICARBOXYLIC ACID, 2- PHOSPHONO-, SODIUM SALT	40372-66-5	0.2 - 0.8
Water	7732-18-5	4 - 10

#### **4. FIRST AID MEASURES**

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General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.



## 5. FIRE FIGHTING MEASURES

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Flammability Summary (OSHA): This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire., This product is a strong oxidizer which is capable of intensifying a fire once started., Product is not known to be flammable, combustible or pyrophoric.

### Flammable Properties

Flash Point: Not applicable  
Autoignition Temperature: Not applicable  
Extinguishing Media: Water only. Do not use dry extinguishers containing ammonium compounds.  
Fire Fighting Instructions: Use water to cool containers exposed to fire. See Section 6 for protective equipment for fire fighting.  
Upper Flammable / Explosive Limit, % in air: Not applicable  
Lower Flammable / Explosive Limit, % in air: Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

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Personal Protection for Emergency Situations: Response to this material requires the use of a full encapsulated suit and a NIOSH approved positive pressure supplied air respirator.

### Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog. All water utilized to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or treatment.

Water Release: This product is heavier than water. This material is soluble in water. Monitor all exit water for available chlorine and pH. Advise local authorities of any contaminated water release.

Land Release: Contact at 1-800-6546-911 immediately. DANGER: All spills of this product should be treated as contaminated. Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire of great intensity. In case of a spill, separate all spilled product from packaging, debris and other material. Using a clean broom or shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labeled. Disposal containers made of plastic or metal are recommended. Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors. Place all damaged packaging material in a disposal container of water to assure decontamination (i.e. removal of all product) before disposal. Place all undamaged packaging in a clean, dry container properly marked and labeled. Call for disposal procedures.



Additional Spill Information : Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration. This material may be neutralized for disposal; you are requested to contact Arch Chemicals at 1-800-654-6911 before beginning any such procedure. FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300 REPORTABLE QUANTITY: 10 lbs. (as calcium hypochlorite) per 40 CFR 302.4.

## 7. HANDLING AND STORAGE

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Handling: Avoid inhalation of dust and fumes. Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before reuse.

Storage: Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

Shelf Life Limitations: Shelf life (that is, the period of time before the product goes below stated label strength) is determined by storage time and temperatures. Do not store product at temperatures above 52 Deg.C (125 Deg.F). Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products. When stored under moderate temperature conditions, product will maintain stated label strength for approximately two years. Prolonged storage at 35 Deg.C (95 Deg.F) or above will significantly shorten the shelf life. Storage in a climate-controlled storage area or building is recommended in those areas where extremes of high temperature occur.

Incompatible Materials for Storage: Do not allow product to come in contact with other materials, including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

Do Not Store At temperatures Above: Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products. 52 °C / 125 °F

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Ventilation: Use local exhaust ventilation to minimize dust and chlorine level where industrial use occurs. Otherwise ensure good general ventilation.

Protective Equipment for Routine Use of Product



Respiratory Protection : Wear a NIOSH approved respirator if dusts are created. NIOSH approved full face piece air-purifying respirator with chlorine cartridges and dust/mist prefilter.

Skin Protection : Wear impervious gloves to avoid skin contact. Where industrial use occurs, full impermeable suit may be required.

Eye Protection: Use safety glasses with side shields. Where industrial use occurs, chemical goggles may be required.

Protective Clothing Type: Neoprene (This includes: gloves, boots, apron, protective suit)

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
CALCIUM HYPOCHLORITE	7778-54-3	ARCH-ROEG*	1 mg/m3 TWA
CALCIUM HYPOCHLORITE	7778-54-3	NIOSH-IDLH	37 - 48 mg/m3 based on IDLH concentration of chlorine
CALCIUM HYDROXIDE	1305-62-0	ACGIH	5 mg/m3 TWA
CALCIUM HYDROXIDE	1305-62-0	OSHA Z1	5 mg/m3 PEL Respirable fraction.
CALCIUM HYDROXIDE	1305-62-0	OSHA Z1	15 mg/m3 PEL Total dust.
CALCIUM CARBONATE	471-34-1	ACGIH	10 mg/m3 TWA The value is for particulate matter containing no asbestos and <1% crystalline silica.
CALCIUM CARBONATE	471-34-1	OSHA Z1	15 mg/m3 PEL Total dust.
CALCIUM CARBONATE	471-34-1	OSHA Z1	5 mg/m3 PEL Respirable fraction.

\*ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: solid,  
 Form: Tablet  
 Color: white  
 Odor: Chlorine-like  
 Molecular Weight: 143.00  
 Specific Gravity : Not applicable  
 pH : 10.4 - 10.8 (1% solution in neutral, distilled water) (@ 25 Deg. C)  
 Boiling Point: Not applicable  
 Freezing Point: Not applicable  
 Melting Point: Not applicable  
 Density: 1.9g/cc  
 Vapor Pressure: (@ 25 Deg. C) Not applicable  
 Vapor Density: Not applicable  
 Viscosity: Not applicable  
 Fat Solubility: No data



Solubility in Water:	18 % (@ 25 Deg. C) Product also contains calcium hydroxide and calcium carbonate which will leave a residue.
Partition coefficient n-octanol/water:	Not applicable
Evaporation Rate:	Not applicable
Oxidizing:	Oxidizer
Volatiles, % by vol.:	Not applicable
VOC Content	Not applicable
HAP Content	Not applicable

## 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Product is not sensitive to mechanical shock or impact. Product is not sensitive to electrical static discharge. Product will not undergo hazardous polymerization. Product is an oxidizer. Not pyrophoric. Not an organic peroxide. Not water reactive. Arch calcium hypochlorite products meet the specifications of ASTM method E-487-74 as set forth in 49 CFR 173.21.
Conditions to Avoid:	May be unstable at temperatures above 170 Deg. C (338 Deg. F), Avoid storage at temperatures above 52 Deg. C (125 Deg. F)., Prevent ingress of humidity and moisture into container or package. Always close the lid.
Chemical Incompatibility:	This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials.
Hazardous Decomposition Products:	Chlorine
Decomposition Temperature:	170 °C - 180 °C , 338 °F- 356 °F

## 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

CALCIUM HYPOCHLORITE	LD50 (65% calcium hypochlorite)	850 mg/kg	Rat
SODIUM CHLORIDE	LD50 =	3,000 mg/kg	Rat
CALCIUM CHLORIDE	LD50 =	1,000 mg/kg	Rat

#### Dermal LD50 value:

CALCIUM HYPOCHLORITE	LD50 (65% calcium hypochlorite)	> 2,000 mg/kg	Rabbit
SODIUM CHLORIDE	LD50 >	10,000 mg/kg	Rabbit
CALCIUM CHLORIDE	LD50 =	2,630 mg/kg	Rat

#### Inhalation LC50 value:

CALCIUM HYPOCHLORITE	Inhalation LC50 1 HOUR (65% calcium hypochlorite), (Nose Only) =	2.04 MG/L
CALCIUM HYPOCHLORITE	Inhalation LC50 4 HOUR (65% calcium hypochlorite), (Nose Only) =	0.51 MG/L



SODIUM CHLORIDE Inhalation LC50 1 HOUR > 42 MG/L Rat  
CALCIUM CHLORIDE No data

Product Animal Toxicity

Oral LD50 value: LD50 850 mg/kg Rat  
Dermal LD50 value: LD50 CAUSES BURNS TO EYES AND SKIN. > 2,000 mg/kg Rabbit  
Inhalation LC50 value: LC50 1.00 HOUR Based on the acute inhalation toxicity for chlorine. Approximately 1.3 MG/L Rat  
Subchronic / Chronic Toxicity: There are no known or reported effects from repeated exposure.

Reproductive and Developmental Toxicity: Calcium hypochlorite has been tested for teratogenicity in laboratory animals. Results of this study have shown that calcium hypochlorite is not a teratogen.

CALCIUM CHLORIDE Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity: Calcium hypochlorite has been tested in the Dominant lethal assay in male mice, and it did not induce a dominant lethal response. Calcium hypochlorite has been reported to produce mutagenic activity in two in vitro assays. It has, however, been shown to lack the capability to produce mutations in animals based on results from the micronucleus assay. In vitro assays frequently are inappropriate to judge the mutagenic potential of bactericidal chemicals due to a high degree of cellular toxicity. The concentration which produces mutations in these in vitro assays is significantly greater than the concentrations used for disinfection. Based on high cellular toxicity in in vitro assays and the lack of mutagenicity in animals, the risk of genetic damage to humans is judged not significant.

CALCIUM CHLORIDE This product was determined to be non-mutagenic in the Ames assay. It was also shown to be non-clastogenic in the chromosomal aberration test.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. One hundred mice were exposed dermally 3 times a week for 18 months to a solution of calcium hypochlorite. Histopathological examination failed to show an increased incidence of tumors. IARC (International Agency for Research on Cancer) reviewed studies conducted with several hypochlorite salts. IARC has classified hypochlorite salts as having inadequate evidence for carcinogenicity to humans and animals. IARC therefore considers hypochlorite salts to be not classifiable as to their carcinogenicity to humans (Group 3 Substance).

CALCIUM CHLORIDE This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

**12. ECOLOGICAL INFORMATION**

Ecological Toxicity Values for: CALCIUM HYPOCHLORITE

Bluegill - (nominal, static). 96 HOUR LC50 0.088 mg/l



Rainbow trout ( <i>Salmo gairdneri</i> ),	-	(nominal, static). 96 HOUR LC50 0.16 mg/l
Daphnia magna,	-	(nominal, static). 48 HOUR LC50 0.11 mg/l
Bobwhite quail	-	Dietary LC50 > 5,000 ppm
Mallard ducklings	-	Dietary LC50 > 5,000 ppm
Bobwhite quail	-	Oral LD50 3,474 mg/kg

**Ecological Toxicity Values for: CALCIUM CHLORIDE**

Bluegill	-	(nominal, static). 96 HOUR LC50 = 10,650 mg/l
Mosquito fish	-	(nominal, static). 96 HOUR LC50 = 13,400 mg/l
Fathead minnow ( <i>Pimephales promelas</i> ),	-	(nominal, static). 96 HOUR LC50 = 4,630 mg/l
Daphnia magna,	-	(nominal, static). 48 HOUR LC50= 2,770 mg/l
Ceriodaphnia dubia	-	(nominal, static). 48 HOUR LC50= 1,830 mg/l
Nitzschia linearis (diatom)	-	(nominal, static). 5 day LC50 = 3,130 mg/l

### 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001. If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed accordingly.

Disposal Methods : As a hazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D001

### 14. TRANSPORT INFORMATION

Land (US DOT): UN1748 CALCIUM HYPOCHLORITE, DRY MIXTURE 5.1 II  
Water (IMDG): UN1748 CALCIUM HYPOCHLORITE, DRY MIXTURE, 5.1 II

Flash Point: Not applicable  
Air (IATA): UN1748 CALCIUM HYPOCHLORITE, DRY MIXTURE, 5.1 II  
Emergency Response Guide Number: ERG # 140



Transportation Notes:

THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL. HAZARD LABEL/PLACARD: OXIDIZER  
REPORTABLE QUANTITY: 10 lbs. (Per 49 CFR 172.101, Appendix)

**15. REGULATORY INFORMATION**

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**UNITED STATES:**

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.  
EPA Pesticide Registration Number: 1258-1179

FIFRA Listing of Pesticide Chemicals (40 CFR 180): This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Hazard Categories Sections 311 / 312 (40 CFR 370.2):  
Health Immediate (Acute) Health Hazard  
Physical Fire and Reactivity

**Emergency Planning & Community Right to Know (40 CFR 355, App. A):**

**Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:**

SARA III Threshold Planning Quantity: None established

**Reportable Quantity (49 CFR 172.101, Appendix):**

CERCLA Reportable quantity: CALCIUM HYPOCHLORITE  
Value: 10lbs

SARA III Reportable quantity: None established

**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components**

SARA III De minimis concentration: None established

**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

**Clean Air Act Socmi:**

HON SOC None established

**Clean Air Act VOC Section 111:**

CAA 111 None established

**Clean Air Act Haz. Air Pollutants Section 112:**

CAA None established

CAA 112I None established

CAA AP None established



**State Right-to-Know Regulations Status of Ingredients  
Pennsylvania:**

CAS #	COMPONENT NAME
10137-74-3	CALCIUM CHLORATE
1305-62-0	CALCIUM HYDROXIDE
7778-54-3	CALCIUM HYPOCHLORITE

PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

PENN RTK

08 1989

CHLORIC ACID, CALCIUM SALT

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

PENN RTK

08 1989

CALCIUM HYDROXIDE (CA(OH)<sub>2</sub>)

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

PENN RTK

08 1989

HYPOCHLOROUS ACID, CALCIUM SALT

**New Jersey:**

CAS #	COMPONENT NAME
10137-74-3	CALCIUM CHLORATE
1305-62-0	CALCIUM HYDROXIDE

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

NJ RTK

12 1989

Substance no. 0313

CALCIUM CHLORATE CHLORIC ACID, CALCIUM SALT

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

NJ RTK

12 1989

Substance no. 0322

CALCIUM HYDROXIDE

**Massachusetts:**

CAS #	COMPONENT NAME
10137-74-3	CALCIUM CHLORATE
1305-62-0	CALCIUM HYDROXIDE
7778-54-3	CALCIUM HYPOCHLORITE

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)



MASS RTK  
04 1993  
CALCIUM CHLORATE

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK  
04 1993  
CALCIUM HYDROXIDE

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK  
04 1993  
CALCIUM HYPOCHLORITE

**California Proposition 65:**

CAS #	COMPONENT NAME
US CA CRT	None established
US CA65CRT	None established

**WHMIS Hazard Classification:**

WHMIS

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)

WHMIS  
01 1988  
Threshold limits: 1%  
English List no. 302  
CALCIUM HYDROXIDE

**16. OTHER INFORMATION**

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections  
SECTIONS REVISED: 14  
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .