

## MATERIAL SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: CCH® CALCIUM HYPOCHLORITE TABLETS

EPA Registration Number: 1258-1233

### 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204 REVISION DATE: SUPERCEDES:

02/28/2008 09/19/2007

MSDS Number:

000000004629

SYNONYMS: CHEMICAL FAMILY: None Hypochlorite

DESCRIPTION / USE:

Sanitizer and Oxidizer

FORMULA:

NOT APPLICABLE/MIXTURE

### 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:

Toxic by inhalation., Corrosive to eyes and skin, Lung toxin, Oxidizer

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**

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

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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: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET

MATERIAL CAUSES SKIN BURNS. Dermal exposure to dry material causes moderate skin irritation characterized by redness and swelling. Dermal exposure to wet material 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: MODERATELY TOXIC 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. Significant exposure to this

material can lead to serious health effects and/or death.

Acute Target Organ Toxicity: This product is corrosive to all tissues contacted and upon inhalation,

may cause irritation to mucous membranes and respiratory tract., The dry material is irritating to the skin. However when wet, it will produce

burns to the skin.

#### Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any

reference source including IARC, OSHA, NTP or EPA.

Reproductive and No reproductive or developmental risk to humans is expected from Developmental Toxicity: exposure to this product.

Inhalation: Repeated inhalation exposure may cause impairment of lung function

and permanent lung damage.

Skin Contact: Effects similar to those from acute exposure. In addition, chronic

exposure to wet material may cause effects secondary to tissue

destruction.

Ingestion: There are no known or reported effects from chronic ingestion except for

effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant

amounts unlikely.

Sensitization: This material is not known or reported to be a skin or respiratory

sensitizer.

Chronic Target Organ Toxicity: There are no known or reported effects from repeated exposure except

those secondary to burns.

Supplemental Health Hazard

Information:

No additional health information available.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS#	% RANGE
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 - 6
CALCIUM CARRONATE	474 04 4	0.4
CALCIUM CARBONATE	471-34-1	0 - 4
Sodium Tripolyphosphate	13573-18-7	0.5 - 1.0
обалат ттрогурноорнало	10010 10 1	0.0 1.0
Water	7732-18-5	5.5 - 8.5

#### 4. FIRST AID MEASURES

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.

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### 5. FIRE FIGHTING MEASURES

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:

Autoignition Temperature:

Not applicable

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

Personal Protection for Emergency Situations:

Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air repirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment.

**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 1-800-654-6911 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 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.

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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

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: Do not store product where the average daily temperature exceeds

95° F. Storage above this temperature may result in rapid

decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products. Shelf life (that is, the period of time before the product goes below stated label strength) is determined by storage time and temperatures. Store in a cool, dry and well ventilated area. Prolonged storage at elevated temperatures 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. A chemical reaction with such substances can cause a fire of great

intensity.

Do Not Store At temperatures Above: Average daily temperature of 35° C / 95° F. Storage above this

temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

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#### Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible.

Respirator Type: A NIOSH approved full-face air purifying respirator equipped with

combination chlorine/P100 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations

exceed ten (10) times the published limit.

Skin Protection: Wear impervious gloves to avoid skin contact. A full impervious suit is

recommended if exposure is possible to a large portion of the body. A safety

shower should be provided in the immediate work area.

Eye Protection: Use chemical goggles. Emergency eyewash should be provided in the

immediate work area.

Protective Clothing Type: Neoprene, Nitrile, Natural rubber (This includes: gloves, boots, apron,

protective suit)

#### **Exposure Limit Data**

CHEMICAL NAME CALCIUM HYPOCHLORITE	<u>CAS #</u> 7778-54-3	Name of Limit ARCH-ROEG*	<u>Exposure</u> 1 mg/m3 TWA
CALCIUM HYPOCHLORITE	7778-54-3	NIOSH-IDLH	37 - 48 mg/m3 based on IDLH
CALCIUM HYDROXIDE	1305-62-0	ZUS_ACGIH	concentration of chlorine 5 mg/m3 TWA
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAPO	5 mg/m3 TWA
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAP1	15 mg/m3 TWATotal dust
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAP1	5 mg/m3 TWArespirable dust fraction
CALCIUM CARBONATE	471-34-1	ZUS_ACGIH	10 mg/m3 TWA
CALCIUM CARBONATE	471-34-1	ZUS_OSHAP1	15 mg/m3 TWATotal dust
CALCIUM CARBONATE	471-34-1	ZUS_OSHAP1	5 mg/m3 TWArespirable dust fraction

<sup>\*</sup>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

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Density: 1.9000a/cc

Vapor Pressure: (@ 25 Deg. C) Not applicable

Vapor Density: Not applicable Viscosity: Not applicable Fat Solubility: No data

Solubility in Water: 18.00000 % (@ 25 Deg. C) Product also contains calcium hydroxide and calcium carbonate which will leave a residue.

Partition coefficient n-

Not applicable

octanol/water:

**Evaporation Rate:** Not applicable Oxidizer Oxidizina: 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 NFPA Class 3 oxidizer

> which can cause a severe increase in fire intensity. Not pyrophoric. Not an organic peroxide. If subjected to excessive temperatures, the product may undergo rapid decomposition, evolution of chlorine gas, and heat sufficient to ignite combustible substances. If product is exposed to small amounts of water, it can

react violently to produce heat and toxic gases and spatter. Use copious amounts of water for fires involving this product.

Conditions to Avoid: Do not store next to heat source, in direct sunlight, or elevated

storage temperature. Do not store where the daily average temperature exceeds 95 °F. Prevent ingress of humidity and moisture into container or package. Always close the lid.

This product is chemically reactive with many substances, Chemical Incompatibility:

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. Do not allow product to contact any foreign matter, including other water treatment products. Contamination or improper use may cause a fire of great intensity, explosion or the release of toxic gases. If product is exposed to small amounts of water, it can react violently to

produce heat and toxic gases and spatter.

Hazardous Decomposition Products: Chlorine

Decomposition Temperature: 170 - 180 DEG°C - , 338 - 356 DEG°F-

## 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

CALCIUM LD50 (65% calcium hypochlorite) 850 mg/kg Rat **HYPOCHLORITE** 

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Dermal LD50 value:

CALCIUM LD50 (65% calcium hypochlorite) > 2,000 mg/kg Rabbit HYPOCHLORITE

SODIUM CHLORIDE LD50 > 10,000 mg/kg Rabbit CALCIUM CHLORIDE LD50 = 2,630 mg/kg Rat

CALCIUM HYDROXIDE No data Sodium Tripolyphosphate No data

Inhalation LC50 value:

CALCIUM Inhalation LC50 1 h (65% calcium hypochlorite), (Nose Only) = 2.04 MG/L Rat

HYPOCHLORITE
CALCIUM Inhalation LC50 4 h (65% calcium hypochlorite), (Nose Only) = 0.51 MG/L Rat

HYPOCHLORITE

SODIUM CHLORIDE Inhalation LC50 1 h > 42 MG/L Rat

CALCIUM CHLORIDE No data CALCIUM HYDROXIDE No data

Sodium Tripolyphosphate Inhalation LC50 4 h > 0.39 MG/L Rat

**Product Animal Toxicity** 

<u>Oral LD50 value</u>: LD50 Approximately 800 mg/kg Rat Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 Inhalation LC50 1.00 h (Nose Only) > 2.04 MG/L Rat Inhalation LC50 4 h

value: (Nose Only) > 0.51 MG/L Rat

Skin Irritation: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL

CAUSES SKIN BURNS.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract. The dry material is irritating to

the skin. However when wet, it will produce burns to the skin.

Subchronic / Chronic There are no known or reported effects from repeated exposure except those

Toxicity: secondary to burns.

Reproductive and Calcium hypochlorite has been tested for teratogenicity in laboratory

Developmental Toxicity: 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

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Sodium Tripolyphosphate

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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 nonclastogenic in the chromosomal aberration test. This product was determined to be non-mutagenic in

the Ames assay.

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

Overview: Highly toxic to fish and other aquatic organisms.

#### **Ecological Toxicity Values for: CALCIUM HYPOCHLORITE**

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

Rainbow trout (Salmo gairdneri), - (nominal, static). 96 h LC50 0.16 mg/l

Daphnia magna, - (nominal, static). 48 h LC50 0.11 mg/l

Bobwhite quail - Dietary LC50 > 5,000 ppm - 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 h LC50 = 10,650 mg/l

Mosquito fish - (nominal, static). 96 h LC50 = 13,400 mg/l Fathead minnow (Pimephales - (nominal, static). 96 h LC50 = 4,630 mg/l

promelas),

Daphnia magna, - (nominal, static). 48 h LC50= 2,770 mg/l

Ceriodaphnia dubia - (nominal, static). 48 h LC50= 1,830 mg/l

Nitzschia linearis (diatom) - (nominal, static). 5 day LC50 = 3,130 mg/l

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## 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): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE 5.1 III Water (IMDG): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 III

Flash Point: Not applicable

Air (IATA): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 III

Emergency Response Guide Number: ERG # 140

Transportation Notes: Under specific circumstances, this product can ship under two

transport exceptions, Limited Quantity or Consumer

Commodity. See Bill of Lading for proper shipping description. REPORTABLE QUANTITY: 10 lbs. (Per 49 CFR 172.101,

Appendix)

EMS: F-H, S-Q

## **15. REGULATORY INFORMATION**

**UNITED STATES:** 

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.

EPA Pesticide Registration Number: 1258-1233

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

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Physical Fire Hazard

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

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity: ZUS\_SAR302 TPQ (threshold planning None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity CALCIUM HYPOCHLORITE

Value: 10lbs

ZUS SAR302 Reportable quantity None established

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

ZUS\_SAR313 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: ZUS\_CAAHAP None established

ZUS\_CAAHRP 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

ZUSPA RTK

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323

1990-01-01

CHLORIC ACID, CALCIUM SALT

hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323 1990-01-01

CALCIUM HYDROXIDE (CA(OH)2)

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hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323 1990-01-01 HYPOCHLOROUS ACID, CALCIUM SALT environmental hazard, hazardous substance

#### **New Jersey:**

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

ZUSNJ RTK

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

CALCIUM CHLORATE

hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

CALCIUM HYDROXIDE

hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

**CALCIUM HYPOCHLORITE** 

special health hazard substance, special health hazard, reactive - second degree

#### Massachusetts:

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

ZUSMA RTK

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000 1991-07-01

**CALCIUM CHLORATE** 

massachusetts hazardous substance

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000 1991-07-01

CALCIUM HYDROXIDE

massachusetts hazardous substance

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know

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law,The Massachusetts Substance List, 105 CMR 670.000 1991-07-01 CALCIUM HYPOCHLORITE massachusetts hazardous substance

California Proposition 65:CAS | COMPONENT NAME #

ZUSCA\_P65 None established

#### WHMIS Hazard Classification:

Canada. Canada Hazardous Products Act SOR/88-64 1988-01-20 Concentration by Weight: 1 percent by weight 302 CALCIUM HYDROXIDE

#### **16. OTHER INFORMATION**

MSDS REVISION STATUS: Revised to meet the ANSI standard of 16 sections

SECTIONS REVISED: 7, 14, 10

Major References: Available upon request.

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