



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: ULTIMA T.K.O.

## 1. PRODUCT AND COMPANY IDENTIFICATION

<u>Supplier</u> Ultima

1400 Bluegrass Lakes Parkway,

Alpharetta, GA, 30004

**United States** 

Telephone: +17705215999 Telefax: +17705215959 Web: www.poospacare.com

Manufacturer

Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America REVISION DATE: 10/09/2013 SUPERCEDES: 09/15/2011

MSDS Number: 000000012612

SYNONYMS: None CHEMICAL FAMILY: None

DESCRIPTION / USE None established FORMULA: None established

# 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

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 1 of 15





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>nazara.</u>
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: 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.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 2 of 15





#### 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

CALCIUM HYPOCHLORITE

Information:

No additional health information available.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME

CAS #

% RANGE

7778-54-3

SODIUM CHLORIDE 7647-14-5

CALCIUM CHLORATE 10137-74-3

CALCIUM CHLORIDE 10043-52-4

CALCIUM HYDROXIDE 1305-62-0

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 3 of 15





CALCIUM CARBONATE 471-34-1

Water 7732-18-5

### 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.

### 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: not applicable Autoignition Temperature: not applicable

Extinguishing Media: Water only. Do not use dry extinguishers containing ammonium

compounds.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 4 of 15



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 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.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 5 of 15





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., 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.

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.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 6 of 15



# 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.

Protective Equipment for Routine Use of Product

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

possible., 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*	Exposure 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	15 mg/m3 TWA total dust
CALCIUM HYDROXIDE	1305-62-0	OSHA Z1	5 mg/m3 TWA respirable fraction
CALCIUM CARBONATE	471-34-1	OSHA Z1	15 mg/m3 TWA Total dust
CALCIUM CARBONATE	471-34-1	OSHA Z1	5 mg/m3 TWA respirable dust fraction

<sup>\*</sup>ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 7 of 15





Form Free flowing powder

Color: white

Odor: Chlorine-like Molecular Weight: 143.00 Gm Specific Gravity: not applicable 10.4 - 10.8 pH:

(1% solution in neutral, distilled water), (@ 25

Deg. C)

**Boiling Point:** 

not applicable

Freezing Point:

not applicable

Melting Point:

not applicable

0.08 g/cm3 Density:

Vapor Pressure: not applicable Vapor Density: not applicable not applicable Viscosity:

Solubility in Water: 180 g/l

> Product also contains calcium hydroxide and calcium carbonate which will leave a residue., (@

25 Deg. C)

Partition coefficient n-

No data. octanol/water:

**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 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.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 8 of 15





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. 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 °C

### 11. TOXICOLOGICAL INFORMATION

#### Component Animal Toxicology

Oral LD50 value:

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

**HYPOCHLORITE** 

### Component Animal Toxicology

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

#### Component Animal Toxicology

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

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 9 of 15





**Product Animal Toxicity** 

Oral LD50 value: LD50 Approximately 800 mg/kg Rat

Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 LC50 1 h (Nose Only) > 2.04 mg/l rat LC50 4 h (Nose Only) > 0.51 mg/l

value: 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

Toxicity:

There are no known or reported effects from repeated exposure except those secondary to burns.

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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 nonclastogenic 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

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 10 of 15





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 Bobwhite quail Oral LD50 3,474 mg/kg

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

Bluegill -(nominal, static). 96 h LC50 = 10,650 mg/l (nominal, static). 96 h LC50 = 13,400 mg/l Fathead minnow (Pimephales (nominal, static). 96 h LC50 = 4,630 mg/l

promelas),

Mosquito fish

Ceriodaphnia dubia

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

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 11 of 15





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.

### 14. TRANSPORT INFORMATION

Land (US DOT): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE 5.1 II UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 II

MARINE POLLUTANT

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

Emergency Response Guide Number: ERG # 140

Transportation Notes: Material is not regulated as a marine pollutant for ground

transportation within the US if shipped in non-bulk packages. REPORTABLE QUANTITY: 10 lbs. (Per 49 CFR 172.101, Appendix) Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping

description.

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: None established

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 Hazard

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 12 of 15





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:

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

ZUSPA RTK

Pennsylvania: Hazardous substance list

1989-08-11

CHLORIC ACID, CALCIUM SALT

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 13 of 15





Pennsylvania: Hazardous substance list

1989-08-11

**CALCIUM HYDROXIDE** 

Pennsylvania: Hazardous substance list

1989-08-11

HYPOCHLOROUS ACID, CALCIUM SALT

Environmental hazard

#### New Jersey:

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

ZUSNJ\_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

CALCIUM CHLORATE CHLORIC ACID, CALCIUM SALT

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

CALCIUM HYDROXIDE CALCIUM HYDROXIDE (Ca(OH)2) HYDRATED LIME

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

CALCIUM HYPOCHLORITE HYPOCHLOROUS ACID, CALCIUM SALT BLEACHING

**POWDER** 

#### Massachusetts:

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

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

**CALCIUM HYPOCHLORITE** 

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 14 of 15





Massachusetts Right to Know List of Chemicals and Hazard Classifications 1994-04-01 CALCIUM HYDROXIDE

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 CALCIUM CHLORATE

**California Proposition 65:** 

CAS # COMPONENT NAME

ZUSCA\_P65 None established

#### WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS) 2007-08-24
Threshold limits: 1 Weight percent

991

Calcium hydroxide

### 16. OTHER INFORMATION

MSDS REVISION STATUS : SECTIONS REVISED:

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.

ULTIMA T.K.O.

REVISION DATE: 10/09/2013 Page 15 of 15