

Arch Chemicals. Inc.

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 1-800-424-9300

1-800-511-MSDS

PRODUCT NAME: DRYTEC™ GRANULAR

EPA Registration Number: 1258-427

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204

REVISION DATE

04/17/2006

SUPERCEDES

MSDS Number SYNONYMS

000000002671

None

CHEMICAL FAMILY

Hypochlorite

DESCRIPTION / USE: FORMULA:

Sanitizer and Oxidizer Not Applicable/Mixture

2. HAZARDS IDENTIFICATION

OSHA Hazard Oxidizer, Toxic by inhalation., Corrosive, Eye and skin hazard, Lung toxin Classification:

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
HMIS	3	0	1	<u>hazard.</u>
NFPA	3	0	1	OX

REVISION DATE: 04/17/2006

Page 1 of 12



Arch Chemicals. Inc.

MATERIAL SAFETY DATA SHEET

CALCIUM HYDROXIDE

1305-62-0

0 - 4

CALCIUM CARBONATE

471-34-1

0 - 5

Water

7732-18-5

5.5 - 10

4. FIRST AID MEASURES

Inhalation

Skin Contact:

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.

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.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 Eye Contact

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.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment Ingestion: 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 Not applicable

Autoignition Temperature: 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

REVISION DATE: 04/17/2006

Page 3 of 12



Arch Chemicals. Inc.

MATERIAL SAFETY DATA SHEET

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 pacakging 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 climatecontrolled 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

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

CHEMICAL NAME

CALCIUM HYPOCHLORITE

CAS# 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

CALCIUM HYDROXIDE

1305-62-0

ACGIH

concentration of chlorine 5 mg/m3 TWA

REVISION DATE: 04/17/2006

Page 5 of 12



Arch Chemicals, Inc.

MATERIAL SAFETY DATA SHEET

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

LD50 (65% calcium hypochlorite) 850 mg/kg

HYPOCHLORITE SODIUM CHLORIDE

LD50 = 3,000 mg/kgRat

CALCIUM CHLORIDE

LD50 = 1,000 mg/kgRat

Dermal LD50 value:

CALCIUM

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

HYPOCHLORITE SODIUM CHLORIDE

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

CALCIUM CHLORIDE

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 Rat

SODIUM CHLORIDE

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

CALCIUM CHLORIDE

Product Animal Toxicity

LD50 850 mg/kg Rat

Oral LD50 value Dermal LD50 value

LD50 CAUSES BURNS TO EYES AND SKIN. > 2,000 mg/kg Rabbit LC50 1.00 HOUR Based on the acute inhalation toxicity for chlorine.

Inhalation LC50 value

Approximately 1.3 MG/L Rat

Subchronic / Chronic

There are no known or reported effects from repeated exposure.

Toxicity

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

REVISION DATE: 04/17/2006

Page 7 of 12



Arch Chemicals.

MATERIAL SAFETY DATA SHEET

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): Water (IMDG):

UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE 5.1 II UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 II

Flash Point Not applicable

Air (IATA):

UN2880 CALCIUM HYPOCHLORITE, HYDRATED 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) Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA):

The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number:

1258-427

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):

REVISION DATE: 04/17/2006

Page 9 of 12



Arch Chemicals, Inc.

MATERIAL SAFETY DATA SHEET

PENN RTK 08 1989 HYPOCHLOROUS ACID, CALCIUM SALT

New Jersey:

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

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	

REVISION DATE: 04/17/2006

Page 11 of 12