Product Name

HTH Shock-N-Swim

MSDS Number O-014

Chemical Name

Calcium Hypochlorite Mixture

Product Number

177413, 17741318, 17741336, 201004, 201006, 201008, 177420

Hazard Pictograms

Supplier Info

Arch Chemicals, Inc 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 1-800-654-6911 Emergency 1-800-424-9300, MSDS Questions 1-800-511-MSDS

Precautionary Statements







Signal Word

Danger

Hazard Statement

Highly Corrosive. May cause skin and eye damage. Avoid breathing dust. May be fatal if swallowed. Do not get in eyes, on skin or clothing. Wear goggles or face shield, and rubber gloves when handling. Irritating to nose and throat. Remove and wash contaminated clothing before reuse.

Corrosive, flush copious amounts of water

Prevent entry into waterways or sewars

Supplimental Information



SAFETY DATA SHEET

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

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS 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: HTH® SHOCK 'N SWIM

EPA Registration Number: 1258-1237

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004

REVISION DATE:

SUPERCEDES:

03/09/2016 02/24/2016

MSDS Number:

000000022366

SYNONYMS: CHEMICAL FAMILY:

Hypochlorite Mixture

DESCRIPTION / USE

swimming pool sanitizerWater treatment

chemical

FORMULA:

Not Applicable/Mixture

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)

Category 4

Chill Collogion

Catagory 1D

Serious eye damage

Category 1

Acute toxicity (Inhalation)

single exposure

Category 3

Specific target organ toxicity -

Category 3 (Respiratory system)

GHS label elements

Hazard pictograms





Signal word

Danger



SAFETY DATA SHEET

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

Precautionary statements

Prevention:

P260 Do not breathe vapours.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if

you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth, Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

Other hazards None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM HYPOCHLORITE	<u>CAS #</u> 7778-54-3	<u>% RANGE</u> 40 - 55	
SODIUM CHLORIDE	7647-14-5	5 - 15	
CALCIUM CHLORATE	10137-74-3	0 - 4	



SAFETY DATA SHEET

CALCIUM CHLORIDE	10043-52-4	0 - 4
CALCIUM HYDROXIDE	1305-62-0	0 - 5
CALCIUM CARBONATE	471-34-1	0 - 4
MAGNESIUM SULFATE HEPTAHYDRATE	10034-99-8	25 - 35
Water	7732-18-5	17 - 22

SECTION 4. FIRST AID MEASURES

Call a poison control center or doctor for treatment advice. For 24-hour General Advice:

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 or 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.

SECTION 5. FIREFIGHTING MEASURES



SAFETY DATA SHEET

Flammability Summary (OSHA):

This product contains an ingredient (calcium hypochlorite) which is both a strong oxidizer and is chemically reactive with many substances. Strong oxidizers are capable of intensifying a fire once started. Because of this, any contamination of the product with other substances by spill or otherwise should be avoided. Also see section 7., Product is not known to be flammable, combustible or pyrophoric., NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer

Flammable Properties

Flash Point:

Autoignition Temperature:

Extinguishing Media:

Fire Fighting Instructions:

Upper Flammable / Explosive Limit, % in air:

Lower Flammable / Explosive Limit,

% in air:

Not applicable

Not applicable

Water only. Do not use dry extinguishers containing ammonium

compounds.

Use water to cool containers exposed to fire. See Section 6 for

protective equipment for fire fighting.

Not applicable Not applicable

Not applicable Not applicable

SECTION 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.



SAFETY DATA SHEET

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.

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.

SECTION 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 of 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.

Do not store product where the average daily temperature exceeds

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.



SAFETY DATA SHEET

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. Average daily temperature of 35° C / 95° F. Storage above this

Do Not Store At temperatures Above:

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

SECTION 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. 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.

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.

Eve Protection:

Protective Clothing Type:

Use chemical goggles.

Nitrile, Natural Rubber, Neoprene (This includes: gloves, boots, apron, protective suit)

General Protective

Measures:

An eye wash and safety shower should be provided in the immediate work area.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
CALCIUM HYPOCHLORITE (7778-54-3)	TWA	1 mg/m3	ARCH OEL*
CALCIUM HYPOCHLORITE (7778-54-3)	Conc	37 - 48 mg/m3	NIOSH/GUIDE IDLH
CALCIUM HYDROXIDE (1305-62-0)	TWA	5 mg/m3	ACGIH (02 2014)

ARCH OEL: Arch Recommended Occupational Exposure Guideline.

HTH® SHOCK 'N SWIM

REVISION DATE: 03/09/2016

Page 6 of 15

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

solid

Form

granules

Color:

white

Odor:

Chlorine-like

Molecular Weight:

143 g/mol

Relative density

Not applicable

Not applicable

pH:

10 - 10.8

10 - 10.8

() (1% solution in neutral, distilled water), (@ 25 Deg. C)77 °F (25

Boiling Point:

Not applicable

Freezing Point:

Not applicable

Density

0.8 g/cm3

Vapor Pressure:

Not applicable, (@ 25 Deg. C)Not applicable

Vapor Density:

Not applicable Not applicable

Viscosity:

no data available

Fat Solubility:

ca. 180 g/l

Solubility in Water:

Approximately 18%, (@ 25 Deg. C), Product also contains calcium

hydroxide and calcium carbonate which will leave a residue.77 °F (25

°C)

Partition coefficient n-

Not applicable

octanol/water:

Not applicable

Evaporation Rate:

Product has oxidizing properties.

Oxidizing:

Not applicable

Volatiles % by vol.: VOC Content

This product does not contain any chemicals listed under the

U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's

(40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

HAP Content

Not applicable

SECTION 10. STABILITY AND REACTIVITY



Conditions to Avoid:

Chemical Incompatibility:

Arch Chemicals.

SAFETY DATA SHEET

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 1 oxidizer. 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. 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. 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, 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: Decomposition Temperature:

Chlorine

170 - 180 °C - , 338 - 356 °F - 170 - 180 °C

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

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

HYPOCHLORITE

SUDIUM CHLURIDE LD50 = 3,000 mg/kg

CALCIUM CHLORIDE LD50 = 1,000 mg/kg Rat CALCIUM HYDROXIDE LD50 = 7,340 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

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

HYPOCHLORITE

SODIUM CHLORIDE LD50 > 10,000 mg/kg Rabbit

CALCIUM CHLORIDE $LD50 = 2,630 \, \text{mg/kg}$

CALCIUM HYDROXIDE no data available

Component Animal Toxicology Inhalation LC50 value:

HTH® SHOCK 'N SWIM

REVISION DATE: 03/09/2016

Page 8 of 15



SAFETY DATA SHEET

2.04 mg/l

0.51 mg/l

CALCIUM HYPOCHLORITE Inhalation LC50 1 h (65% calcium hypochlorite), (Nose Only) =

Inhalation LC50 4 h (65% calcium hypochlorite), (Nose Only) =

SODIUM CHLORIDE

42 mg/l Rat Inhalation LC50 1 h

CALCIUM CHLORIDE

no data available

CALCIUM HYDROXIDE

no data available

Product Animal Toxicity

Oral LD50 value: Dermal LD50 value:

Inhalation LC50

value:

LD50 approximately 1,200 mg/kg Rat

> 2,000 mg/kg Rabbit LD50

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

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

Skin Irritation:

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL

CAUSES SKIN BURNS.

Eve Irritation:

Skin Sensitization:

Corrosive to eyes. 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.

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-



SAFETY DATA SHEET

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.

SECTION 12. ECOLOGICAL INFORMATION

Overview:

Highly toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

Bluegill

(nominal, static). 96 h LC50 approximately 0.12 mg/l Based on

extrapolation from studies using calcium hypochlorite.

Rainbow trout (Salmo gairdneri),

(nominal, static). 96 h LC50 approximately 0.22 mg/l Based on

extrapolation from studies using calcium hypochlorite.

Daphnia magna,

(nominal, static). 48 h LC50approximately 0.15 mg/l Based on

extrapolation from studies using calcium hypochlorite.

Bobwhite quail

LC50 > 7,000 ppm Based on extrapolation from studies

using calcium hypochlorite.

Mallard ducklings

LC50 > 7,000 ppm Based on extrapolation from studies

using calcium hypochlorite.

Bobwhite quail

LD50 approximately 4,800 mg/kg Based on extrapolation

from studies using calcium hypochlorite.

Ecological Toxicity Values for: CALCIUM HYPOCHLORITE

(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

Mallard ducklings

Dietary LC50 > 5,000 ppm

Bobwhite quail

Dietary LC50 > 5,000 ppm 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

Pimephales promelas (fathead

(nominal, static). 96 h LC50 = 4,630 mg/l

minnow)

HTH® SHOCK 'N SWIM

REVISION DATE: 03/09/2016

Page 10 of 15



SAFETY DATA SHEET

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

SECTION 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 DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Disposal Methods:

As a nonhazardous waste, it should be disposed of in accordance

with local, state and federal regulations.

Potential US EPA Waste Codes:

Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT

UN number

: 3077

Description of the goods

Environmentally hazardous substances, solid, n.o.s.

(Calcium hypochlorite)

Class

Packing group

: 111

Labels

Emergency Response

: 9

: 171

Guidebook Number

TDG

UN number

: 3077

Description of the goods

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Calcium hypochlorite)

Class

HTH® SHOCK 'N SWIM

REVISION DATE: 03/09/2016

Page 11 of 15



Anch Chemicals.

SAFETY DATA SHEET

Packing group

: 111

Labels

9

IATA

UN number

: 3077

Description of the goods

: Environmentally hazardous substance, solid, n.o.s.

(Calcium hypochlorite)

Class

9

Packing group

: 111

Labels Packing instruction (cargo

9MI : 956

aircraft)

Packing instruction

: 956

(passenger aircraft)

Packing instruction

: Y956

(passenger aircraft)

IMDG-CODE

UN number

3077

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Calcium hypochlorite)

Class

: 9

Packing group

: 111

Labels

: 9

EmS Number 1 EmS Number 2

: F-A : S-F

Marine pollutant

: yes

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word

DANGER!

Hazard statements

Harmful if swallowed.

Harmful if absorbed through skin. Corrosive. Causes skin burns.

Corrosive. Causes irreversible eye damage.

This pesticide is toxic to fish.

EPA No.

: 1258-1237

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components

CAS-No.

Component RQ

Calculated

HTH® SHOCK 'N SWIM

REVISION DATE: 03/09/2016

Page 12 of 15



SAFETY DATA SHEET

		(lbs)	product RQ (lbs)
Calcium hypochlorite	7778-54-3	10	18

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A

Calcium hypochlorite

7778-54-3

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Calcium hypochlorite

7778-54-3

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Calcium hypochlorite Calcium dihydroxide Calcium carbonate 7778-54-3 1305-62-0 471-34-1



SAFETY DATA SHEET

orate 10137-74-3
101011143
ochlorite 7778-54-3
sulphate 10034-99-8
oride 7647-14-5
ydroxide 1305-62-0
bonate 471-34-1
orate 10137-74-3
oride 10043-52-4
oochlorite 7778-54-3
sulphate 10034-99-8 e
oride 7647-14-5
ydroxide 1305-62-0
bonate 471-34-1
orate 10137-74-3

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA

: This is an EPA registered pesticide.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KEC! (Keree), NZIoC (Now Zooland), DICCS (Dhilinnines), TCSI (Taiwan), TSCA (LISA)

SECTION 16. OTHER INFORMATION

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.



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