Cal Hypo, Scorch, JCH

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Cal Hypo, Scorch, JCH
Synonyms:	Super Zappit, Clear X, Super Shock
Common Name:	Calcium Hypochlorite
SDS Number:	73
Revision Date:	4/9/2018
Version:	1
CAS Number:	7778-54-3
Product Description:	White Granules with chlorine odor
Product Use:	Swimming Pool Sanitizer
Instructions:	Only in the event of a transportation emergency involving spills, leaks, fires or accidents call Chemtrec at (800) 424-9300
Supplier Details:	N. Jonas & Co., Inc. 4520 Adams Circle, P.O. Box 425 Bensalem, PA 19020
Phone:	215-639-8071

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Oxidizing Solids, 2
Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 B
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 1
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Acute, 1
Environmental, Hazards to the aquatic environment - Acute, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H272 - May intensify fire; oxidizer
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H318 - Causes serious eye damage
H336 - May cause drowsiness or dizziness
H400 - Very toxic to aquatic life
H402 - Harmful to aquatic life

GHS Precautionary Statements:

P220 - Keep/Store away from clothing/ combustible materials.
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ eye protection/ face protection.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
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 or doctor/ physician.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Skin; Eyes; Inhalation; Ingestion;

Target Organs: Airways; Respiratory system; Stomach; Skin; Mucous membranes; Throat; Gastrointestinal tract; Gastrointestinal system; Nose;

Inhalation: Inhalation of calcium hypochlorite dust and deposition of particles in the respiratory tract can lead to irritation of the tissue and cause a variety of effects. These effects are dependent on the concentration and include: upper respitory tract irritation, nasal congestion, coughing, sore throat, laryngitis and shortness of breath. In operations where there are high concentrations of respirable particles, pulmonary edema (fluid in the lungs) may be produced. If not treated immediately, pulmonary edema can be life threatening. Since this product is in granular of tablet form, particles of respirable size are not generally encountered

Skin Contact: Contact with the skin may cause severe irritation, burns, or tissue destruction
This product will probably not be absorbed through human skin

Eye Contact: Corrosive to eyes. Contact of calcium hypochlorite dust with the eyes, even a minute amount for a short duration, can cause severe irritation and even blindness

Ingestion: If swallowed, caused severe burns to the digestive tract and can be fatal.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients

CAS#	%	Chemical Name
7778-54-3	65-76%	Calcium hypochlorite
10137-74-3	2%	Calcium chlorate
471-34-1	2%	Carbonic acid calcium salt (1:1)
1305-62-0	2%	Calcium hydroxide
6487-39-4	0.8%	Lanthanum Carbonate

4 FIRST AID MEASURES

Inhalation: Remove from area of fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Skin Contact: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. Contact a poison control center, emergency room or physician right away as further treatment will be necessary

Eye Contact: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary

Ingestion: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an conscious or convulsing person. Do not induce vomiting. Contact a poison center, emergency room or physician right away as further treatment will be necessary

5 FIRE FIGHTING MEASURES

Flash Point: Non Applicable
Flash Point Method: Non Applicable
Autoignition Temperature: Non Applicable

Product decomposes at approximately 338-356 deg. F. (170-180 deg. C.) releasing oxygen gas. Containers may rupture
Drench with large quantities of water only. Do not use dry chemical or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective
Fire-fighters must wear NIOSH approved, pressure demand, self-contained breathing apparatus with full face piece for possible exposure to hazardous gases

Emits toxic fumes under fire conditions. Product decomposes at approximately 338-356 deg. F. (170-180 deg. C.) releasing oxygen gas

6 ACCIDENTAL RELEASE MEASURES

Use extreme caution in handling spilled material. If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and dissolve material in water. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

7 HANDLING AND STORAGE

Handling Precautions: Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not add this product to any dispensing device containing remnants of any other product. Never add water to product. Always add the product to large quantities of water. May cause fire or explosion if mixed with other chemicals

Storage Requirements: Store in a cool, dry, well-ventilated place. Keep in original container. Keep container closed when not in use. Keep away from heat, sparks, flames, direct sunlight, and other sources of heat, including lighted tobacco products.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Where the potential to dust exists, use the appropriate regulatory compliant full facepiece air-purifying respirator with acid gas cartridge and particulate prefilter. Carefully read and follow the respirator manufacturer's instructions and information
Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Use butyl rubber, neoprene, or nitrile gloves to prevent skin contact
Splash proof goggles and faceshield

NO ACGIH TLV or OSHA PEL assigned to this product. The OSHA PEL and ACGIH TLV for calcium hydroxide are 5 mg/m3 (TWA). The OSHA PELs for the calcium carbonate are 15 mg/m3 (total dust) and 5mg/m3 (respirable dust). The OSHA PELs for calcium carbonate are 10 mg/m3 (total dust) and 5mg/m3 (respirable dust). The ACGIH TLVs for calcium carbonate are 10 mg/m3 (total dust) and 3mg/m3 (respirable nuisance particulte).

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White granules with slight chlorine odor		
Specific Gravity or Density:	65-67 ibs./cu. Ft.	**Solubility:**	217 g/l at 27 deg.C
Boiling Point:	decomposes at approximately 338-356 deg. F (170-180 deg. C.)	**Percent Volatile:**	No data
Vapor Pressure:	No data	**Vapor Density:**	No data
Potentia Hydrogenii:	Alkaline		

10 STABILITY AND REACTIVITY

Chemical Stability: Unstable above 338 deg. F. (170 deg. C.).

Conditions to Avoldentification: Moisture

Materials to Avoldentification: contamination excessive heat above 338 deg. F. (170 deg. C.).
Moisture. Acids. Reducing agents. Organics. Combustible materials. Petroleum products. Paint products. Wood and paper

Hazardous Decomposition: Acid or ammonia contamination will release toxic gases.
Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

Hazardous Polymerization: Will not occur

11 TOXICOLOGICAL INFORMATION

Calcium hypochlorite cas#:(7778-54-3) [65%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 850 mg/kg
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - Hamster - fibroblast Cytogenetic analysis

Carcinogenicity:
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Calcium hypochlorite)
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Synergistic effects: no data available

Additional Information:

RTECS: NH3485000

Carbonic acid calcium salt (1:1) cas#:(471-34-1) [2%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 6,450 mg/kg
Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: FF9335000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Calcium hydroxide cas#:(1305-62-0) [2%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 7,340 mg/kg
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit - Irritating to skin.

Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - rat - Ascites tumor Cytogenetic analysis

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
Inhalation - May cause respiratory irritation. no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: EW2800000

12 ECOLOGICAL INFORMATION

Calcium hypochlorite cas#:(7778-54-3) [65%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Lepomis macrochirus - 0.057 mg/l - 96.0 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.067 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Very toxic to aquatic life.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Carbonic acid calcium salt (1:1) cas#:(471-34-1) [2%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Calcium hydroxide cas#:(1305-62-0) [2%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Clarias gariepinus - 33.884 mg/l - 96 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.
no data available

13 DISPOSAL CONSIDERATIONS

Calcium hypochlorite cas#:(7778-54-3) [65%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Carbonic acid calcium salt (1:1) cas#:(471-34-1) [2%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Calcium hydroxide cas#:(1305-62-0) [2%]

Waste treatment methods

Product: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

2880, PGII, (Calcium Hypochlorite Hydrated)

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(10LBS), Calcium hypochlorite (7778-54-3) [65%] CERCLA, CSWHS, MASS, PA, TSCA

Calcium chlorate (10137-74-3) [2%] MASS, PA

Carbonic acid calcium salt (1:1) (471-34-1) [2%] TSCA

Calcium hydroxide (1305-62-0) [2%] MASS, OSHAWAC, PA, TSCA, TXAIR

Lanthanum Carbonate (6487-39-4) [0.8%]

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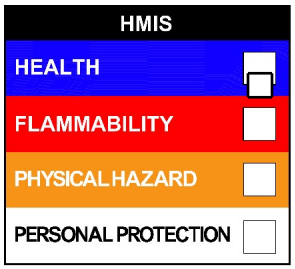
Regulatory CODE Descriptions

RQ = Reportable Quantity
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
OSHAWAC = OSHA Workplace Air Contaminants
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

HMIS III: Health = 3, Fire = 1, Physical Hazard = 1



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