



NAPCO CHEMICAL COMPANY

Safety Data Sheet Calcium Hypochlorite Granular

SECTION 1: Identification

1.1 Product identifier

Product name Calcium Hypochlorite Granular

1.4 Supplier's details

Name NAPCO Chemical Company
Address 2830 Spring Cypress Rd
Spring, Tx 77383
United States

Telephone 281-651-6800
Fax 281-651-6868

1.5 Emergency phone number(s)

ChemTel 1(800)255-3924

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Oxidizing solids (chapter 2.14), Cat. 2
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Eye damage/irritation (chapter 3.3), Cat. 1
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

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Hazard statement(s)

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P220	Keep/Store away from clothing/.../combustible materials.
P221	Take any precaution to avoid mixing with combustibles/...
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep 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/...
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P391	Collect spillage.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Calcium hypochlorite

Concentration	65 - 65 %
EC no.	231-908-7
CAS no.	7778-54-3
Index no.	017-012-00-7

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- Oxidizing solids (chapter 2.14), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life

2. CHLORIC ACID, CALCIUM SALT

Concentration	2 %
CAS no.	10137-74-3

3. Calcium carbonate

Concentration	2 %
CAS no.	471-34-1

4. Calcium hydroxide

Concentration	2 %
CAS no.	1305-62-0

5. SODIUM CHLORIDE

Concentration	17 %
CAS no.	7647-14-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, trained personnel should begin artificial respiration or, if the heart has stopped start CPR (cardiopulmonary resuscitation) . Consult a physician immediately.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Wash contaminated clothing before reuse.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
If swallowed	Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Never give anything by mouth to an unconscious person. Rinse mouth with water. Have victim drink one cup

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(8-10 oz) of water to dilute material in stomach. Consult a physician or poison control center immediately.

Personal protective equipment for first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Drench with water and cool surrounding products with water. Use appropriate self-fire extinguishing agents - Use water only.

5.2 Specific hazards arising from the chemical

Water in contact with hot hypochlorite can release hydrochloric acid or chlorine gas.

5.3 Special protective actions for fire-fighters

In case of fire wear self-contained breathing apparatus. Use personal protective equipment.

Further information

Be aware that Calcium Hypochlorite can decompose violently at temperatures above 150 C. Releasing heat and oxygen gas.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating. For personal protection see section 8.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas. Promptly dispose of in suitable container.

Reference to other sections

Never return spills to original containers for re-use. For waste disposal see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid generating dust. Avoid mixing pure material with contaminated material. Use smallest possible amounts in designated areas with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in original containers. Keep container tightly closed in a clean, cool, open and well ventilated place. Keep out of sun.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

1. Calcium hydroxide, Total dust (CAS: 1305-62-0)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

2. Calcium hydroxide, Total dust (CAS: 1305-62-0)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Calcium hydroxide, Total dust (CAS: 1305-62-0)

REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

4. Calcium hydroxide, Respirable fraction (CAS: 1305-62-0)

PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Local exhaust ventilation required when exposure to dust occurs.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical safety goggles, and face shields are necessary.

Skin protection

Use impervious gloves, body suit, boots, and/or other resistant protective clothing. Have safety shower/eye wash fountain readily available in the immediate work area.

Body protection

Materials for protective clothing. Butyl rubber, natural rubber, neoprene, nitrile/polyvinyl chloride, polyurethane, polyvinyl chloride.

Respiratory protection

Wear dust mask or NIOSH approved type canister type respirator suitable for chlorine.

Thermal hazards

Wear appropriate thermal protective clothing when necessary.

Environmental exposure controls

Should not be released into the environment. See Section 12 for additional ecological information.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Solid granules White, free flowing granules with strong chlorine odor
Odor	Strong chlorine
Odor threshold	Not available.
pH	11.5 (5% Solution)
Melting point/freezing point	Decomposes at temperature above 150 C.
Initial boiling point and boiling range	Not available.

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Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability limits	Not available.
Upper/lower explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	150 C
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Calcium Hypochlorite should be kept away from household soap, paint products, sustain lotions, solvents, acids, beverages, lighted cigarettes, combustible material, garbage, dirt, rags, organic material and other pool chemicals. Mixing with any of the above material can initiate a hazardous decomposition of Calcium Hypochlorite. Calcium Hypochlorite should not be mixed with anything but water.

10.2 Chemical stability

Heat, acids, and organic compounds may cause hazardous decomposition of Calcium Hypochlorite. Water added to container to container of Calcium Hypochlorite may generate enough heat to initiate the hazardous decomposition of material.

10.3 Possibility of hazardous reactions

Ammonia, Urea and conditions of reactivity. Form reactive and toxic chloramines.

10.4 Conditions to avoid

Can react violently with metal oxides.

10.5 Incompatible materials

Calcium Hypochlorite is a strong oxidizing agent. Mix only into water contamination of the product may result in chemical reaction with generation of hazardous gases and possible fire and explosion.

10.6 Hazardous decomposition products

Chlorine and Oxygen

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion causes burns of the upper digestive and respiratory tract if swallowed.

Skin corrosion/irritation

Causes severe skin burns.

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Serious eye damage/irritation

Causes severe eye damage.

Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Summary of evaluation of the CMR properties

This product is not expected to contribute to any of these properties.

STOT-single exposure

May cause damage to organs. May cause respiratory irritation.

STOT-repeated exposure

If inhaled the corrosive substances can lead to a toxic edema of lungs.

SECTION 12: Ecological information

Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting affects.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soluble.

Results of PBT and vPvB assessment

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal of the product

Do not touch spilled material. Prevent material from entering sewers or confined spaces. Shovel into clean, dry, labeled containers. Flush area with water. Care should be taken while handling contaminated material due to fire risk. Consult appropriate Federal, State/Provincial and local regulatory authorities to ascertain proper disposal procedures.

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Waste treatment

Contaminated materials may be dissolved in water, then treated with a reducing agent such as sodium sulphite.

Sewage disposal

Do not allow.

Other disposal recommendations

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN3487

Class: 5.1

Subsidiary risk: 8

Packing Group: II

Proper Shipping Name: Calcium Hypochlorite, Hydrated

Reportable quantity (RQ): 10 lbs.

Marine pollutant: Regular

Poison inhalation hazard:

IMDG

UN Number: UN3487

Class: 5.1

Subsidiary risk: 8

Packing Group: II

EMS Number:

Proper Shipping Name: Calcium Hypochlorite, Hydrated

IATA

UN Number: UN3487

Class: 5.1

Subsidiary risk: 8

Packing Group: II

Proper Shipping Name: Calcium Hypochlorite, Hydrated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Calcium hypochlorite

CAS number: 7778-54-3

New Jersey Right To Know Components

Common name: CALCIUM HYPOCHLORITE

CAS number: 7778-54-3

Pennsylvania Right To Know Components

Chemical name: Hypochlorous acid, calcium salt

CAS number: 7778-54-3

New Jersey Right To Know Components

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Common name: CALCIUM CHLORATE
CAS number: 10137-74-3

Pennsylvania Right To Know Components

Chemical name: Chloric acid, calcium salt
CAS number: 10137-74-3

New Jersey Right To Know Components

Common name: CALCIUM HYDROXIDE
CAS number: 1305-62-0

Pennsylvania Right To Know Components

Chemical name: Calcium hydroxide
CAS number: 1305-62-0

15.2 Chemical Safety Assessment

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory. Read safety instructions, SDS, and emergency procedures before handling.

HMIS Rating

Calcium Hypochlorite Granular	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. NAPCO CHEMICAL COMPANY, INC. DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN. NAPCO CHEMICAL COMPANY, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of NAPCO Chemical Company, Inc., and shall be the sole responsibility of the holder or user of the product.