



WATER SPECIALIST SUPPLY CO.,LTD.

Call : 034-440-851-3, 095-367-5790

Sales : 089-695-8181, 083-705-1000, 089-160-6121

MATERIAL SAFTY DATA SHEET

CALCIUM HYPOCHLORITE

PRODUCT:CALCIUM HYPOCHLORITE

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WATER SPECIALIST SUPPLY CO.,LTD.

78/7 Moo4 Khae Rai, Krathum Baen, Samut Sakhon 74110

Call (+66) 34-440-851 to 3 , (+66) 95-367-5790

Fax (+66) 34-440-851 to 3 ext.105

Email : Water_wss@hotmail.com

PREPARED BY..... Water Specialist Supply CO.,LTD
PREPARATION DATE..... 26/August/16
PRODUCT NAME.....Calcium Hypochlorite.
CHEMICAL FORMULA.....Ca(ClO)2.
OTHER NAME.....Calcium oxychloride; Hypochlorous acid ;
Calcium Salt ; Lime Chloride
MOLECULAR WEIGHT.....142.98 g/mol
CHEMICAL FAMILY.....Inorganic Chemical Compound.
PRODUCT USE.....Sanitize public swimming pools and disinfect
drinking water.
EMERGENCY PHONE NO.....(+66)34-440-851 to 3 or (+66)95-367-5790

SECTION 02 : COMPOSITION/INFORMATION ON INGREDIENT

Table with 3 columns: Content Ingredients %, Hazardous, C.A.S.#. Rows include Calcium Hypochlorite 65%, Calcium Chloride 10%, Moisture 3%, and Efficiency Annual loss 8%.

SECTION 03: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: White crystalline powder. **Danger!** Strong oxidiser. Contact with other material may cause a fire. Corrosive. Cause eye and skin burns. May be harmful if swallowed. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

Potential Health Effects

Eye Contact:

Causes eye burns. May result in corneal injury. May cause blepharitis (Inflammation of the margins of the eyelids)

Skin Contact:

Causes severe burns with delayed tissue destruction.

Ingestion:

May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May be harmful if swallowed.

Inhalation:

Causes chemical burns to the respiratory tract. Aspiration may lead to pulmonary edema. May cause systemic effects. Cause corrosive action on the mucous membranes.

Chronic :

Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed. Laboratory experiments have resulted in mutagenic effects.

SECTION 04 : FIRST AID MEASURES

Eye contact:

Get medical aid immediately. **DO NOT** allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin Contact:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion :

DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. **DO NOT** use mouth-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

NOTE TO PHYSICIAN: Treat symptomatically and supportively.

SECTION 05 : FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. During a fire, irritation and highly toxic gases may be generated by thermal decomposition or combustion. Use water caution and in flooding amounts. Contaminating or mixing with foreign materials such as combustible, grease, and fuels can cause fire. Containers may explode when heated.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. For small fires, **DO NOT** use dry chemicals, Carbon Dioxide, halon or foams. **USE WATER ONLY.** For large fires, flood fire area with water from a distance

Autoignition Temperature: Not available. **Flash Point Explosion:** Not available.
Explosion Limits: Lower: Not available. **Explosion Limits:Upper:** Not available.
NFPA Rating: ;(estimated) Health :3 ; Flammability :0 ; Instability : 1;
Special Hazard :OX

SECTION 06 : ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers. Do not use combustible materials such as paper towels to clean up spill.

SECTION 07 : HANDLING AND STORAGE

Storage :

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Do not store near combustible materials. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from acids.

Handling :

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid contact with clothing and other combustible materials. Do not ingest or inhale. Discard contaminated shoes.

SECTION 08 : EXPOSE CONTROL/PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilising this material should be equipped with eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low

OSHA Vacated PELs:

Calcium hypochlorite: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective gloves to prevent skin exposure.

Respiratory : A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

SECTION 09 :PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder or granular

Colour: White

Odor: Strong odor- Chlorine-like

pH: Not available

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Not applicable

Viscosity: Not available

Boiling Point: Decomposes

Melting Point: 100 °C (decomposes)

Solubility in water: Easily soluble

Specific Gravity/Density: 2.350 g/cm³

Molecular Formula: Ca(ClO)₂

Molecular Weight: 142.9848

SECTION 10:STABILITY AND REACTIVITY

Stability:

Stable at room temperatures in closed containers under normal storage and handling conditions.

Conditions to Avoid :

High temperatures, Incompatible materials, ignition source, dust generation, acids, excess heat, combustible materials, organic materials, reducing agents.

Incompatibilities :

Reducing agents, carbontetrachloride, ammonia amines, aromatic amines, sulfur, sulfides (inorganic sulfide, lead sulfide, sodium sulfide), metal oxides, glycerol, phenols, diethylene glycol monomethy ether, carbon, acetic acid + potassium, cyanides(e.g.potassium cyanide, sodium cyanide), ammonium chloride, charcoal,N,N-dichloromethylamine+ heat, ethanol, menthol, iron oxide, rust, 1-propanethiol, isobutanethiol, turpentine, sodium hydrogen sulfate +strach +sodium carbonate, acetylene, hydroxy compounds (e.g. ethanol, ethylene glycol, glycerol, sugar), combustible materials (e.g. anthracene, grease, oil, mercaptants, methyl carbitol, nitromethane, organic matter, and propylmercaptan)

Hazardous Decomposition:

Hydrogen chloride, irritating and toxic fumes and gases, oxygen, chloride.

Hazardous Polymerization :

Has not been reported.

SECTION 11 : TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 7778-54-3: NH3485000

LD50/LC50:

CAS# 7778-54-3: Oral, mouse: LD50 = 850 mg/kg;<br

Carcinogenicity:

CAS# 7778-54-3: Not listed by ACGIH, IRAC, NIOSH, NTP, or OSHA.

Epidermiology:No information available.

Teratogenicity :No information available.

Reproductive Effects:No information available.

Neurotoxicity : No information available.

Mutagen city : Mutation in Microorganisms: Salmonella typhimurium= 1mg/plate ;
Cytogenetic Analysis: Hamster, Fibroblast = 4 gm/L.

Other Studies: No data available.

SECTION 12 : ECOLOGICAL CONSIDERATION

Ecotoxicity Data

Fish : Striped bass: LC50 = 0.5 mg/L;24 Hr;

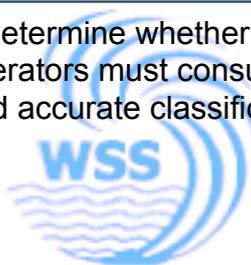


SECTION 13 : DISPOSAL CONSIDERATION

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.



SECTION 14 : TRANSPORT INFORMATION

US DOT

Shipping Name: CALCIUM HYPOCHLORITE

Hazard Class: 5.1

UN Number: UN1748

Packing Group: II



SECTION 15 :REGULATORY INFORMATION

US FEDERAL

TSCA

CAS # 7778-54-3 listed on the TSCA Inventory.

Health and Safety Reporting list

None of the chemicals are on the Health and safety Reporting List.



Chemical Test Rules

None of the chemicals in this product are under a chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA section 12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

CAS# 7778-54-3 : 10 lb final RQ; 4.54 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of this chemicals in this product have a TPQ.

SARA Codes

CAS# 7778-54-3: acute,flammable.

Section 313

No Chemicals are reportable under Section 313.

Clean Air Act :

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletes. This material does not contain any Class 2 Ozone depletors.

Clean Water Act :

CAS# 7778-54-3 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7778-54-3 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.
California No significant Risk level: None of the chemicals in this product are listed.

**European/ International Regulations
European Labeling in Accordance with EC directives**

Hazard Symbols: O C

Risk Phrases:

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 1/2 Keep locked up and out of reach of children.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible).

S 43J In case of the fire, use water. Do not use dry chemicals or foams. CO2

WGK (Water Danger / Protection)

CAS# 7778-54-3 : 2

Canada- DSL/NDSL

CAS# 7778-54-3 listed on Canada's DSL List.

Canada - WHMIS

WHMIS:Not available

Canadian Ingredient Disclosure List

Exposure Limits

SECTION 16 :OTHER INFORMATION

Disclaimer :

Water Specialist Supply(WSS THAILAND) CO.,Ltd provide information contained here in good faith but make no representation as to its comprehensiveness or accuracy.This document is intended only as a guide to the appropriate precautionary handing of the material by a properly trained person using this product.Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.