



This item is only shipped via ground.
Continental US and Canada only
ORM-D
Limited Quantity

Phone: 863 658 0235

1. Chemical Product And Company Information

Chemical Name	Percent	Formula	CAS#	UN#
Calcium Hypochlorite 73%	HTH - Calcium Hypochlorite		7778-54-3	UN 2660

Manufacturer/Distributor

KV Lab- Keavys Corner LLC 168 McCoy Drive, Lake Placid FL 33852
Phone: 863 658 0235

2. Composition and Product Information

Chemical Name	Percent	Formula	CAS#	UN#
Calcium Hypochlorite	>70		7778-54-3	UN 2880
sodium chloride	23 to 28		7647-14-5	
Calcium Carbonate	<3		471-34-1	
Calcium Hydroxide	<3		1305-62-0	
calcium chlorate	0 - 1		10137-74-3	

Note: Minimum 70% Available Chlorine. 30% inert ingredients (includes 5.5-8.5% water).

3. Hazard Identification

Emergency Overview:

STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. DO NOT MIX WITH OTHER CHEMICALS, INCLUDING ANY OTHER POOL CHEMICALS OF ANY KIND. MIXING WITH OTHER CHEMICALS COULD CAUSE A FIRE OR EXPLOSION.

Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. ALWAYS ADD PRODUCT TO LARGE QUANTITIES OF WATER TO FULLY DISSOLVE PRODUCT. DO NOT POUR WATER INTO PRODUCT, ALWAYS ADD PRODUCT TO WATER. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. CAUSES EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. HARMFUL IF

INHALED. HARMFUL OR FATAL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Routes of Entry:

Inhalation, Skin Contact/absorption, Eye Contact or Ingestion

Symptoms of Exposure:

Inhalation: Adverse symptoms may include the following: Respiratory tract irritation, coughing, breathing, difficulty or shortness of breath, pulmonary edema

Skin Contact/absorption: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.

Eye Contact: Adverse symptoms may include the following: pain, watering, redness, Cornea opacity
Direct contact with the eyes can cause irreversible damage, including blindness.

Ingestion: Adverse symptoms may include the following: stomach pains, nausea or vomiting, gastric perforation.

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

4 . First Aid Measures

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention

Eyes: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Continue rinsing until medical attention can be obtained.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately

Ingestion: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting. Get medical attention immediately.

5. Fire Fighting Measures

Conditions Of Flammability: Product is not known to be flammable, combustible, or pyrophoric. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. This product is a strong oxidizer which is capable of intensifying a fire once started. Container may rupture in high temperatures.

Means To Extinguish: WATER ONLY Do not use dry chemicals 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. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

Hazardous Combustion Products: Decomposition products may include the following materials: carbon oxides, halogenated compounds, metal oxide/oxides

Flash Point & Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto-Ignition Temperature: Not applicable

Mechanical Impact Sensitivity: Not applicable (water solution)

Static Discharge Sensitivity: Not applicable (water solution)

Special Remarks on Fire Hazards:

Fumes can be toxic. Use a gas mask as a preventive measure, if there is any risk of chlorine vapors in the air.

6. Accidental Release Measures

Leak Or Spill Procedures :

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container. 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. Water polluting material. May be harmful to the environment if released in large quantities.

7. Handling/Storage

Handling Procedures And Equipment :

Use caution in handling spilled material. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. 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 immediately dissolve material in a water-filled container. 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. Prevent entry into sewers, water courses, basements or confined areas

8. Exposures Controls / Personal Protection

Protective Equipment: Use Gloves, Safety Goggles, and respiratory equipment when dealing with larger amounts.:

Engineering Controls: Use in well ventilated area.

ACGIH: Not Established

OSHA: Not Established

Canada: Not Established

Mexico: Not Established

IPEL

TWA: 1 mg/kg

STEL: 2mg/kg

9. Physical And Chemical Properties

State: Solid (Granular)

Odor: Sharp, pungent Chlorine like odor.

Boiling Point: Decomposes @ 170-180C

Melting Point: Not applicable

Freezing Point: Not applicable

pH: Alkaline

Appearance: Off White Granules

Specific Gravity:1.10 @ 0 °C

Solubility 100 g/l

10. Stability And Reactivity

Chemical Stability:

The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas Stable under recommended storage and handling conditions (see Section 7). Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas

Incompatible Substances:

Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, Ammonia., Petroleum products., Paint products., Wood and paper., Pool chemicals

Hazardous Decomposition Products:

Acid or ammonia contamination will release toxic gases.Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials contact with acids/ammonia Reactions may include the following: risk of causing or intensifying fire liberation of toxic gas Product slowly releases chlorine gas

11. Toxicological Information

Inhalation: Vapors from solutions may cause mild to severe irritation of the nose and throat.

Overexposure could cause coughing, sneezing, and labored breathing. Large amounts of vapor can cause the lungs to produce liquid..

Skin Contact/absortion: Corrosive. Causes burns.

Eye Contact: Corrosive. Causes burns.

Respiratory Severely irritating to the respiratory system

Target Organs Contains material which may cause damage to the following organs: lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea, stomach

LD50 : 850 mg/kg (oral rat)

LD50: >1000mg/kg (dermal rabbit)

LC50: Unavailable

Exposure Limits: See Section 8 Exposure Controls

Irritancy: Severe (corrosive)

Sensitization: Does not appear in reference lists.

Carcinogenicity: IARC - 3

Mutagenicity:

OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Positive
	Positive	
OECD 474 Mammalian Erythrocyte Micronucleus Test	-	Positive
	Experiment: In vitro Subject: Mammalian-Animal	
OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

Reproductive Toxicology : Does not appear in reference lists.

Toxicological Synergism : May have synergidtic effects in conjunction with chlorine, chlorine oxides, and chlorine/flourine componds.

12. Ecological Information

Ecological Information:

LC50: Acute 57 to 60 ug/L Fresh water (Fish -Bluegill 96 hours)

LC50 Acute 37 ug/L Marine water (Fish -Atlantic Silverside 96 hours)

EC50 Acute .073 to .079 Fresh water (Water Flea Daphnia 48 hours)

Very toxic to aquatic life. Do not allow to enter groundwater, surface water or drain

13. Disposal Considerations

Disposal Considerations :

Contained ponds, pools, or drains containing organic matter will normally provide an environment in which small amounts of calcium Hypochlorite, will be reduced to harmless compounds quickly. Do not dispose of waste with normal garbage, or to sewer systems. Whatever cannot be saved for use, including containers should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Small amounts of this product may be neutralized with water at the rate on 1g/1.25l.

14. Transportation Information

PROPER SHIPPING NAME: Calcium Hypochlorite (Hydrated)

UN NUMBER: 2880

CAS NUMBER: 7778-54-3

HAZMAT CLASS: Class 5.1 Oxidizer

PACKAGING CLASS: II (Do not store in Metal Containers.)

ORM-D Shippable less than 1 pound per container.

15. Regulatory Information

USA Regulations

TSCA (Toxic Substances Control Act) Status: All components are listed or exempted

CERCLA RQ-40 CFR 302.4(a): Calcium hypochlorite: 10 lbs. (4.54 kg);

SARA 302 Components: calcium dihydroxide; calcium chlorate; calcium carbonate; sodium chloride; calcium hypochlorite

Canada

WHMIS Classification Class E: Corrosive solid. Class C: Oxidizing material.

16. Other Information

Prepared By: Steve Pardee - Keavys Corner LLC

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