SAFETY DATA SHEET Calcium Peroxide

SDS #: 1305-79-9-1

Revision date: 2016-02-12

Format: NA Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Calcium Peroxide

Other means of identification

CAS-No 1305-79-9 **Synonyms** Calcium Peroxide

Recommended use of the chemical and restrictions on use

Used as a curing agent in certain rubber compounds. Other uses include starch **Recommended Use:**

modification, dough conditioner, and ingredient in deodorants, cosmetics and dentifrices.

Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

PeroxyChem LLC 2005 Market Street

Suite 3200

Philadelphia, PA 19103

Phone: +1 267/422-2400 (General Information)

E-Mail: sdsinfo@peroxychem.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.)

1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

1 303/389-1409 (Medical - U.S. - Call Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Oxidizing Solids	Category 2

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

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Hazard Statements

H318 - Causes serious eye damage
H335 - May cause respiratory irritation





Precautionary Statements - Prevention

P280 - Wear eye protection/ face protection

P261 - Avoid breathing dust.

P271 - Use only outdoors or in a well-ventilated area

P210 - Keep away from heat

P220 - Keep/Store away from clothing/combustible materials

P221 - Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P370 + P378 - In case of fire: Use water spray for extinction

Precautionary Statements - Storage

P403 - Store in a well-ventilated place

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Reacts with moisture to liberate oxygen

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Calcium Peroxide	1305-79-9	>75
Calcium Hydroxide	1305-62-0	<25

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids

intermittently. Consult a physician.

Skin Contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

Ingestion Rinse mouth with water and afterwards drink plenty of water or milk. Do not induce vomiting

or give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Corneal lesions and irreversible damage if contact with the eyes

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Flood with water.

Unsuitable extinguishing media Dry chemical. Foam.

Specific Hazards Arising from the Chemical

Not flammable. Decomposes under fire conditions to release oxygen that intensifies the fire.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Not sensitive. Not sensitive.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with the skin and the eyes. Avoid dust formation. Ensure adequate

ventilation. For personal protection see Section 8.

Other For further clean-up instructions, call PeroxyChem Emergency Hotline number listed in

Section 1 "Product and Company Identification" above.

Environmental Precautions Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater.

See Section 12, Ecological Information for more detailed information.

Methods for Containment Vacuum or shovel waste into a drum and label contents for disposal. Do not return product

to the original storage container/tank due to risk of decomposition. Keep combustibles

(wood, paper, oil, etc) away from spilled material.

Methods for cleaning up After cleaning, flush away traces with water. Do not flush powdered material to sewer;

Runoff to sewer may create fire or explosion hazard.

7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Ensure adequate ventilation. In case of insufficient

ventilation, wear suitable respiratory equipment if release of airborne dust is expected. If compounded with organics or combustible materials be sure to exclude moisture.

Storage Keep tightly closed in a dry and cool place. Do not store near combustible materials. Keep

away from heat and sources of ignition i.e., steam pipes, radiant heaters, hot air vents or

welding sparks. Reacts with moisture. Keep container tightly closed.

Incompatible products . Heavy metals. Combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Calcium Hydroxide	TWA: 5 mg/m ³	TWA: 15 mg/m ³	TWA: 5 mg/m ³	Mexico: TWA 5 mg/m ³
1305-62-0		TWA: 5 mg/m ³		
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Calcium Hydroxide 1305-62-0	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³

Appropriate engineering controls

Engineering measures Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Rubber/latex/neoprene or other suitable chemical resistant gloves. Wash the outside of

gloves with soap and water prior to removal. Inspect regularly for leaks.

Respiratory Protection For dust, splash, mist or spray exposures wear a filtering mask.

Hygiene measures Clean water, preferably an eyewash station and a safety shower, should be available for

washing in case of eye or skin contamination. Handle in accordance with good industrial

hygiene and safety practice.

General information If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Powder Physical State Solid

Color White to off white Odor odorless

Odor odorless
Odor threshold Not applicable

pH 11.4 - 11.7 (1 % suspension in water) @ 25 °C

Melting point/freezing point Decomposes on heating @ ~275 °C

Boiling Point/Range No information available

Flash point Not applicable

Evaporation Rate No information available

Flammability (solid, gas)

Substance does not burn but will support combustion

Flammability Limit in Air Not applicable

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Density

No information available
No information available
No information available
No information available

Specific gravity 2.92

Water solubility slightly soluble Solubility in other solvents Soluble in acids

Partition coefficientNo information availableAutoignition temperatureProduct is not self-ignitable.

Decomposition temperature 275 °C

Viscosity, kinematic No information available (Solid)

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Viscosity, dynamic No information available

Explosive properties Not explosive

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Oxidizing propertiesStrong oxidizerMolecular weight72.8 (CaO2)Bulk density34 lb/cu ft (loose)

10. STABILITY AND REACTIVITY

Reactivity Oxidizer: Avoid contact with combustible materials.

Chemical Stability Stable under recommended storage conditions. Decomposition can occur on exposure to

heat or moisture.

Possibility of Hazardous Reactions Contamination, heat, and humid conditions will enhance and accelerate decomposition.

However, unlike most oxidizers, decomposition is endothermic.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Heat. (decomposes at 275 °C). Humid air. Contamination. Grinding with organics.

Incompatible materials Heavy metals. Combustible materials.

Hazardous Decomposition Products Oxygen which supports combustion. Calcium oxides.

11. TOXICOLOGICAL INFORMATION

Product Information

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

 LD50 Oral
 > 5 g/kg (rat)

 LD50 Dermal
 > 10 g/kg (rat)

 LC50 Inhalation
 > 17 mg/L 1 hr (rat)

Serious eye damage/eye irritation Corrosive. Risk of serious damage to eyes.

Skin corrosion/irritationNon-irritating (rabbit). May cause skin irritation in susceptible persons.

Sensitization No information available.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Hydroxide	7340 mg/kg (Rat)		
(1305-62-0)			

Information on toxicological effects

Symptoms Dust is irritating eyes, nose, throat, and lungs.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity No known effect.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Mutagenicity This product is not recognized as mutagenic by Research Agencies

Reproductive toxicityThis product is not recognized as reprotox by Research Agencies.

STOT - single exposureSTOT - repeated exposure
May cause respiratory irritation.
No information available.

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Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects The environmental impact of this product has not been fully investigated

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Calcium Hydroxide		96 h LC50: = 160 mg/L (Gambusia affinis) static		

Persistence and degradability Biodegradability does not pertain to inorganic substances.

Bioaccumulation Does not bioaccumulate.

Mobility No information available.

Other Adverse Effects None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Dispose of in accordance with local regulations.

US EPA Waste Number D001

Contaminated Packaging Empty remaining contents. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID no 1457

Proper Shipping Name CALCIUM PEROXIDE MIXTURE

Hazard class 5.1 Packing Group II

TDG

UN/ID no 1457

Proper Shipping Name CALCIUM PEROXIDE MIXTURE

Hazard class 5.1 Packing Group II

ICAO/IATA Oxidizers are prohibited from aircraft.

IMDG/IMO

UN/ID no 1457

Proper Shipping Name CALCIUM PEROXIDE MIXTURE

Hazard class 5.1 Packing Group II

ADR/RID

UN/ID no UN 1457

Proper Shipping Name OXIDIZING SOLID, n.o.s. (Calcium Peroxide)

Hazard class 5.1

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Packing Group

OTHER INFORMATION This material is shipped in 25 lb. plastic pails, and 30 lb. and 100 lb. fiber drums.

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic health hazard No
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA/EPCRA

International Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/EL INCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)
Calcium Peroxide	X	X	X	X	X	X	X	Х	Χ
1305-79-9 (>75)									
Calcium Hydroxide 1305-62-0 (<25)	X	X	Х	Х	Х	X	X	Х	X

CANADA

WHMIS Hazard Class C - Oxidizing materials

E - Corrosive material





16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 0	Stability 1	Special Hazards OX
HMIS	Health Hazards 2	Flammability 0	Physical hazard 1	Special precautions J

NFPA/HMIS Ratings Legend

Special Hazards: OX = Oxidizer

Protection=J (Safety goggles, gloves, apron, combination dust and vapor respirator)

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Disclaimer

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Prepared By:

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End of Safety Data Sheet