

Material Safety Data Sheet
EOX™

Section 1 : Chemical Product and Company Identification

Product Name: EOX™

Catalog Codes:

CAS#: 1305-79-9, 1305-62-0

Chemical Name: Calcium Peroxide

Chemical Formula: CaO₂, Ca(OH)₂

Contact Information:

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**CHEMTREC (24 hr Emergency Telephone),
call: 1-800-424-9300**

**International CHEMTREC, call:
1-703-527-3887**

Chemtrec Customer # 221130

**For non-emergency assistance, call:
1-919-873-2204**

Section 2 : Composition and Information on Ingredients

Composition:

Chemical Name	CAS#	Wt%	EC No.	EC Class
Calcium Peroxide	1305-79-9	>75	215-139-4	Not classified
Calcium Hydroxide	1305-62-0	<25	215-137-3	Not Classified

Emergency Overview:

- Odorless, off-white fine granular solid.
- Oxidizer.
- Contact with combustibles may cause fire.
- Under fire conditions product may decompose releasing oxygen that intensifies fire.
- Deluge container with water at safe distance or in protected area.
- Severely irritating to the eyes.

Potential Health Effects: Airborne dust may be irritating to eyes, nose, throat and lungs. No significant long term inhalation hazard; irritation usually subsides after exposure ceases. Ingestion may be irritating to the mouth and throat with nausea and vomiting. Dermal contact may be irritating to the skin. Eye contact may cause irritation and a risk of serious or permanent eye lesions.

Section 3 : Physical and Chemical Properties

ODOR:	None
APPEARANCE:	Off-white fine granular solid
AUTOIGNITION TEMPERATURE:	Non-combustible
BOILING POINT:	No data available
COEFFICIENT OF OIL / WATER:	Not available
DENSITY / WEIGHT PER VOLUME:	Approximately 27 lb/ft ³
EVAPORATION RATE:	Not Applicable (Butyl Acetate = 1)
FLASH POINT:	Not Applicable
MELTING POINT:	Decomposes on heating (About 275°)
ODOR THRESHOLD:	Not available
OXIDIZING PROPERTIES:	Oxidizer
PERCENT VOLATILE:	Not applicable
pH:	(1% solution) @ 25°C: Slurry 10.5-11.8
SOLUBILITY IN WATER:	Slightly soluble
SPECIFIC GRAVITY:	Approximately 2.92 (H ₂ O=1)
VAPOR DENSITY:	Not applicable (Air =1)
VAPOR PRESSURE:	Not applicable

Section 4 : First Aid Measures

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

NOTES TO MEDICAL DOCTOR: Modest irritation is the only expected

Section 5 : Fire Hazards

Oxidizer. Storage vessels involved in a fire may vent gas or rupture due to internal pressure. Damp material may decompose exothermically and ignite combustibles. Oxygen release due to exothermic decomposition may support combustion. May ignite other combustible materials. Avoid contact with incompatible materials such as heavy metals, reducing agents, acids, bases, combustibles (wood, papers, cloths etc.). Thermal decomposition releases oxygen and heat. Pressure bursts may occur due to gas evolution. Pressurization if confined when heated or decomposing. Containers may burst violently.

Section 6 : Fire Fighting Measures

- **Evacuate all non-essential personnel**
- **Wear protective clothing and self-contained breathing apparatus**
- **Remain upwind of fire to avoid hazardous vapors and decomposition products**
- **Use water spray to cool fire-exposed containers**

Section 7 : Accidental Release Measures

Spill Clean-up Procedures

- **Oxidizer. Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 8. Never exceed any occupational exposure limit.**
- **Shovel or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory.**
- **Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.**
- **Do not touch or walk through spilled material. Keep away from combustibles (wood, paper, oils, etc.). Do not return any product to container because of the risk of contamination**

Section 8 : Handling and Storage

Storage

- **Oxidizer. Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat.**
- **Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.**
- **Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.**
- **Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.**

Handling

- **Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.**
- **Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in**

work area.

- Prevent contact with combustible or organic materials.
- Label containers and keep them tightly closed when not in use.
- Wash thoroughly after handling.

Section 9 : Exposure Controls/Personal Protection

Engineering Controls

General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Respiratory Protection

For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, wear a NIOSH approved respirator.

Eye/Face Protection

Wear chemical safety goggles and a full face shield while handling this product.

Skin Protection

Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Chemical-resistant (Recommended materials: PVC, neoprene or rubber)

Other Protective Equipment

Eye-wash station

Safety shower

Impervious clothing

Rubber boots

General Hygiene Considerations

Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

10. Stability and Reactivity

Stable under normal conditions

Conditions to Avoid

Water

Acids

Bases

Salts of heavy metals

Reducing agents

Organic materials

Flammable substances

Hazardous Decomposition Products
Oxygen which supports combustion

11. Toxicological Information

- LD50 Oral: Min.2000 mg/kg, rat
- LD50 Dermal: Min. 2000 mg/kg, rabbit
- LD50 Inhalation: Min. 4580 mg/kg, rat

12. Ecological Information

- Hazards for the environment are limited due to the product properties of no bioaccumulation, weak solubility and precipitation in aquatic environment.
- As indicated by chemical properties oxygen is released into the environment.

13. Disposal Considerations

Waste Treatment

Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

Package Treatment

The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

14. Transportation Information

- Proper Shipping Name: Calcium Peroxide
- UN Number: UN1457
- Hazard Class: 5.1
- Labels: 5.1 (Oxidizer)
- Packing Group: II

15. Regulatory Information

SARA Section..... Yes
SARA (313) Chemicals..... No
EPA TSCA Inventory..... Appears
Canadian WHMIS Classification..... C, D2B
Canadian DSL..... Appears
EINECS Inventory..... Appears

16. Other Information

Disclaimer

The data in this Material Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which EOS Remediation, LLC assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.