

Material Safety Data Sheet



75% CALCIUM PEROXIDE

| Product: CALCIUM PEROXIDE Manufacturer : Siam Aqua Tech Development System Co.,Ltd. Emergency Telephone Nos.: 66-83-1454522 (24 Hours) 66-2-0067571 (Office Hours) | |
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| Product Information | |
| Synonyms | Calcium Peroxide |
| Formula | CaO ₂ (CAS. No. 1305-79-9) |
| Product Uses | It is a versatile chemical and is used extensively as an oxidizing agent for food, environmental, cosmetics, starch modification, fisheries, aquacultures and other applications. |
| Additional Information | At room temperature, calcium peroxide is an extremely stable compound. The stability is affected if kept in elevated temperatures in humid atmosphere, or when wet. |
| Precautionary Information | |
| Health | Airborne dust is irritating to eyes, nose, throat and lungs. No significant long term inhalation hazard; irritation subsides after exposure ceases. |
| Physical | Reacts with moisture to liberate oxygen which initiates or promotes combustion in other materials. |

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| | Decomposes to release oxygen at elevated temperatures. |
| Ingredients | |
| Calcium Peroxide (CaO ₂), (CAS. No. 1305-79-9) | 75 % |
| Calcium hydroxide (Ca(OH) ₂), (CAS. No. 1305-62-0) | 15 % |
| Other calcium salts | 10 % |
| Physical Data | |
| Melting Point | Decomposes on heating |
| Appearance and state | Cream colored powder |
| Odor | Odorless |
| Specific Gravity | Approx. 2.92 [Bulk density=27 Lbs/Cu.ft or 12 Kg/ 0.028317 Cu.m or 423.77 Kg/1 Cu.m] |
| Solubility in water | Insoluble |
| pH (1% slurry) | 12-13 |
| Hazard Class | Oxidizer |
| Fire, Explosion and Reactivity Data | |
| Flash Point | Not applicable |
| Auto ignition Temperature | Not applicable |
| Extinguishing media | Water |

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| Special Fire Fighting Procedures | Full protective clothing. Consider calcium peroxide as a strong oxidizer. Cool exposed containers with water. |
| Degree of Fire and Explosion Hazard | Non combustible, decomposes with liberation of oxygen. |
| Conditions to avoid | Excessive heat, moisture and grinding mixtures with organics |
| Major Contaminants that contribute to instability | Heat, moisture, Reducing agents |
| Incompatibility | With heavy metal |
| Routes of Exposure | |
| Eye Contact | Severely irritating to unwashed eyes; minimally irritating to washed eyes (rabbit) |
| Skin Contact | Non irritating (rabbit) |
| Skin Absorption | No significant hazard (rabbit) |
| Inhalation | 1 Hr LC50 above 17 mg/L (rat) |
| Ingestion | No significant hazard Oral LD 50 above 5 gms/kg (rat) |
| Effects of Over Exposure | |
| Acute Exposure | Dust irritating to eyes, nose, throat and lungs |
| Emergency and First Aid Procedures | |

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| Eyes | Immediately flush with large amount of water for at least 15 minutes. Check immediately with eye specialist. |
| Skin | Wash with large amount of water. If irritation persists, obtain medical attention |
| Inhalation | Remove to fresh air. Call a doctor. |
| Ingestion | If swallowed, drink plenty of water. See a doctor. |
| Decontamination Procedure | Wash with soap and water. |
| Notes to Doctor | <p>Modest irritation is the only expected effect, and should have no serious consequences except perhaps in the case of direct eye contact.</p> <p>Contaminated external surfaces should be flooded with water, and direct eye contact deserves eye specialist check. If ingested, gastrointestinal irritation but not caustic burns are to be expected; dilution with water indicated as may be gastric evacuation via emesis or large if large doses or severe irritation is evident. Demulcents should be helpful. No systemic effects are expected.</p> |
| Special Protection | |
| Ventilation | Use only in well ventilated area. Control dust in work place at or below recommended (5 mg/m ³) |
| Recommended Personnel Protective Equipment | |

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| Respiratory | When exposure above established standard is likely, a respiratory protection such as dust mask be used. |
| Eyes | Cup type chemical goggles and/or full face mask |
| Gloves | Rubber or neoprene gloves |
| Footware | Rubber or neoprene footware |
| Emergency Accident | |
| Precautions and Procedure | Wash area with large amounts of water. Keep material cool and dry |
| Storage and Handling | |
| Storage and Handling | Avoid contamination and wear suitable protective clothing. Keep material dry. Store in a clean dry place. Do not store or expose to heat source such as steam pipe, radiant heaters, hot are vents, or near welding sparks. Avoid contact with reducing agents. Reacts with moisture. If compounded with organic or combustible material, be sure to exclude moisture. Keep containers tightly closed when not in use. |
| Disposal, Spill or Procedures | |
| Procedure for Release of Spill | Dilute with a large volume of water. Hold in a pond or diked area Dispose of according to method outlined below for waste disposal. |
| Waste Disposal Method | An acceptable method of disposal is to dilute with a large amount of water and allow the discharge into a suitable treatment system in accordance with all local and state environmental laws, rules, regulations, |

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| | standards, and other requirements, because acceptable method of disposal may vary by location and because regulatory requirements may change. The appropriate regulatory agencies should be contacted prior to disposal. |
| Transportation | |
| Precautions | Drums/bags should be stacked properly in transit, make sure to avoid moisture and excessive heat |
| UN Number | 1457 |
| Type of Packages | |
| Type of Packages | Polyethylene bags/ Fiber drums with polyliner meeting specifications according to USA DOT code 21C115. |