





台灣塑膠工業股份有限公司
FORMOSA PLASTICS CORPORATION

Safety Data Sheet

1. Product and Company Identification

Product name: Calcium oxide
Other names: Lime
Manufacture, importer or supplier: Name: Formosa Plastics Corporation, Carbide Division Dongshan Plant No. 201, Dongfu Rd., Dongshan Township, I-lan County, Taiwan (R.O.C) Phone: 886-3-9591134
Emergency contact phone / Fax : 886-3-9591134/ 886-3-9593066

2. Hazards Identification

Product hazard classification: Skin irritation (Category 2), Serious eye damage (Category 1), Specific target organ toxicity - single exposure (Category 1)
<div></div> <p>Labeling: Hazard pictograms: Corrosion, Health hazards. Signal word: Danger. Hazard statements: Causes severe skin burns and eye damage. Causes serious eye damage. Precautionary statements: Avoid breathing dust. Wear eye protection/ face protection.</p>
Other hazards: Reacts violently with water, releasing heat which can ignite combustible .

3. Composition /Information on Ingredients

Individual components: Calcium oxide
% by wt.: 100
CAS No.: 1305-78-8

4. First Aid Measures

First aid of different exposure routes: Inhalation: Remove the contamination source or move the patient to fresh air. Get medical attention. Skin contact: Wash exposed area with large amounts of water. Get medical advice if irritation develops. Eye contact: Wash thoroughly with running water for at least 15 mins. Get medical advice if irritation develops. Ingestion: Flush the mouth thoroughly with large amounts of water. Do not induce vomiting. Get medical advice.
Major symptoms and harm effects: Sever irritation and burning.
Protection for the first aiders: None.

Notice to physician: Provide general supportive measures and treat symptomatically.

5. Fire-fighting Measures

Suitable fire extinguishing media : Use dry chemical or carbon dioxide fire extinguisher.
Possible harm during fire-fighting: Not combustible or flammable. However, it reacts violently with water, and can release heat sufficient to ignite combustible materials.
Special fire-fighting procedures: Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.
Special equipment for the protection of firefighters: Wear full fire-fighting turn-out gear and respiratory protection. Wear spark-proof coat if necessary.

6. Accidental Release Measures

Personal precautions: Wear appropriate personal protective equipment for clean up.
Environmental precautions: Ventilate the area of leak or spill. Remove any substance that would react with the spills.
Cleanup method: Use dry methods such as sweep up or shovel to collect spilled substance. Prevent release to sewers or waterways. Residual amounts of substance can be flush with large amounts of water.

7. Handling and Storage

Handling: Avoid formation of dust when handling. Avoid direct contact with the material.
Storage: Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Control

Engineering control: 1.Ventilation system 2.Outdoor exhaust port 3.Fresh air
Parameter control: <div style="display: flex; justify-content: space-between;"> <div>OSHA PEL</div> <div>10mg/m³(total dust)</div> </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div>5mg/m³(respirable fraction)</div> </div>
Personal protection: <div style="display: flex; justify-content: space-between;"> <div>Breath: mask</div> <div>Eyes: goggles</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Hands: gloves</div> <div>Skin/body: working suit and overshoes</div> </div>
Hygiene measures: 1. Dusted clothing and shoes should be thoroughly cleaned before reuse. 2. No smoking or eating at working area. 3. Wash hands after handling this product. 4. Maintain the cleanness of working area.

9. Physical and Chemical Properties

Appearance: White powder	Odor: None
Odor threshold: None	Melting point: 2570°C
pH value: 12.5	Boiling Point: 2850°C
Flammability(Solid, gas): Not applicable	Flash point: Not applicable
Decomposition temperature: Not applicable	Test method: No information available
Auto ignition temperature: Not applicable	Explosion limit: Not applicable

Vapor pressure: No information available	Vapor density: No information available
Specific gravity: 3.25~3.38	Solubility in water: reacts with water
Partition coefficient (n-octanol/water, log Kow) : No information available	Evaporation rate: No information available

10. Stability and Reactivity

Stability: Stable under normal conditions.
Possible hazardous reactions under specific conditions: 1. Reacts vigorously with strong acid. 2. Ignites and burns when reacting with HF, Cl ₂ and BF ₃ . 3. Reacts violently with water and can release heat sufficient to ignite combustible materials.
Conditions to avoid: Moisture.
Materials to avoid: Acid and water.
Hazardous decomposition product: None

11. Toxicological Information

Routes of exposure: Skin contact, inhalation, ingestion, eye contact.
Acute toxicity: Skin contact: Severe irritation of wet skin. Inhalation: Might irritate the respiratory tract and cause sneezing and coughing. Ingestion: Intense burning of digestive tract, possible perforation of esophagus or stomach , vomiting, diarrhea. Eye contact: Extremely hazardous in eye contact (corrosive/irritant). Possible lesions and blindness if untreated for prolonged period. Oral LD ₅₀ (rat): >500mg/kg.
Slow toxicity or long-term toxicity: No information available.

12. Ecological Information

Ecotoxicity: No information available.
Persistence and degradability: No information available.
Bio-accumulative potential: Not accumulate in vivo but excrete through feces and urine.
Mobility in soil: No information available.
Others adverse effects: No information available.

13. Disposal Considerations

Disposal must be done in accordance with existing regulations and could be handled as none-toxics through landfill.

14. Transport Information

United Nations number: No information available.
United Nations proper shipping name: No information available.
Transport hazard class: No information available.
Packing group: No information available.
Sea pollutants(Yes/No): No information available.
Specific transport measures and precautionary conditions: No information available.

15. Regulatory Information

OSHA Hazards	Corrosive
SARA 302/304	Emergency Planning and Release Notification - Not Listed
SARA 311	Hazard Categories (40 CFR 370) - Regulated under OSHA HazCom - Acute & Chronic
SARA 312	Emergency Planning and Release Notification - Not Listed
SARA 313	Toxic Release Inventory (TRI) Chemical List - No reporting requirement
FDA	Calcium oxide is generally recognized as safe (GRAS) - (21 CFR 184.1205)

16. Other Information

Reference	No information available	
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Date	2024.6.13	