

GHS Material Safety Data Sheet

MSDS No. : CAI03PAEG

Date Issued: 2012/12/10

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: **Ca(OH)₂ Calcium hydroxide**

Product number:	Purity	Form	Size or Shape
CAI07PB	99%up(2Nup)	powder	—

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosive/irritation : Category 2 Serious eye damage/eye irritation : Category 1 Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure : Category 2	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label : R C



Pictograms or symbols

Warning word: **DANGER**

Hazard information

Causes skin irritation
Causes serious eye damage
Causes damage to organs (Respiratory system)
May cause damage to organs(Lung) through prolonged or repeated exposure

Description of precaution

Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.
 Avoid breathing dust/mist/fume/vapors.
 Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.
 Take off the contaminated clothing and wash before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 IF ON SKIN: Wash skin with plenty of soap and water.
 If skin irritation occurs, get medical advice/attention.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 Store locked up.
 Dispose of contents/ container in accordance with local/ national regulations.

Additional hazard information :

Heating liberates toxic gases/fume.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Calcium hydroxide
Chemical formula:	Ca(OH) ₂
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	1305-62-0
RTECS#:	EW2800000
TSCA inventory:	listed
EINECS:	2151373

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	This product cannot catch fire. Use media appropriate for surrounding fire.
Fire fighting:	Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
Specific hazards arising from the chemical:	In case of fire, liberates toxic gases/ fume.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/ dust/ fume.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Avoid unnecessary contacts with spills. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place. Carefully wash spill site with plenty of water after material pick up. Avoid raising dust.

Section 7. Handling and storage**Precautions to be taken in handling:**

Safe handling:	Handling worker wears suitable protective clothing, and use local ventilation equipment.
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Precautions to be taken in storage:

General precautions: Store in a cool, dry place away from incompatible materials.
Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2012) : Calcium hydroxide TLV-TWA 5 mg/m³
OSHA (2006) : Calcium hydroxide PEL-TWA 5 µg/m³ (Respirable fraction)
15 µg/m³ (Total dust)

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator, safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

Section 9. Physical and chemical properties

Color and Form: White solid, odorless.

Chemical formula: Ca(OH)₂

Molecular weight: 74.1

Melting point: decompose (-H₂O : 580 °C)

Boiling point: Not data available

Specific gravity: 2.24

Water solubility: Slightly soluble

Flammable: non-flammable substance

Oxidation: Not data available

Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Strong acids

Condition to avoid: Heat, air (carbon dioxide)

Hazardous decomposition products : Calcium oxide

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Not classified.; Falls below the lowest level.
Ca(OH)₂ oral rat LD₅₀ = 7340 mg/kg (ACGIH(2001))

Acute toxicity(Dermal, Inhalation) : GHS : No data available

Skin corrosive / irritation : GHS : Category 2 ; Causes skin irritation

Serious eyes damage / eye irritation : GHS : Category 1 ; Causes serious eye damage

Respiratory sensitization : GHS : No data available

Skin sensitization : GHS : No data available

Germ cell mutagenicity : GHS : No data available

Carcinogenicity: GHS : No data available

Reproductive toxicity : GHS : No data available

Specific target organ toxicity
—single exposure : GHS : Category 1 ; Causes damage to organs
(Respiratory system)

Specific target organ toxicity

—repeated exposure : GHS : Category 2
May cause damage to organs (Lung) through prolonged or repeated exposure.

Aspiration hazard: GHS : No data available

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

—acute toxicity: GHS : No data available

—chronic toxicity: GHS : No data available

Hazardous the ozone layer: GHS : No data available
No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed
'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Non-hazards

UN number: None

HS code: 2825.90

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.