

SAFETY DATA SHEET CEMENT



SDS DATE : October 2024

SECTION 1 : MATERIAL AND COMPANY IDENTIFICATION

Product Identifier

Product Name : Cement

General Information : White cement is produced by mix cement clinker with gypsum and another composite being cement product that used as a binder in concrete and mortars that are widely used in construction

Note: This SDS covers many types of cement. Individual composition of hazardous constituents will vary between types of cement

Responsible Party

Company

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Product Use : As Material in Manufacture of Portland Cements

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1A	H350
STOT SE 3	H335

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



GHS05



GHS07



GHS08

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H350 - May cause cancer

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust

- P264 - Wash hands, forearms, exposed areas thoroughly after handling
- P271 - Use only outdoors or in a well-ventilated area
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P280 - Wear protective gloves, protective clothing, eye protection
- P302+P352 -IF ON SKIN: Wash with plenty of water
- P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - If exposed or concerned: Get medical advice/attention
- P310 - Immediately call a POISON CENTER/doctor
- P332+P313 - If skin irritation occurs: Get medical advice/attention
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P362+P364 - Take off contaminated clothing and wash it before reuse
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up
- P501 - Dispose of waste material in accordance with all local, regional, state, national, provincial, territorial and international regulations

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENTS</u>	<u>PERCENTS (%)</u>	<u>CAS No.</u>
CaO (Calcium Oxide)	60.0 ± 6.0	1305-78-8
SiO ₂ (Silicon Dioxide)	21.0 ± 3.0	7631-86-9
Al ₂ O ₃ (Aluminium Oxide)	5.0 ± 2.0	1344-28-1
Fe ₂ O ₃ (Iron III Oxide)	3.5 ± 3.0	1309-37-1
MgO (Magnesium Oxide)	3.5 ± 2.0	1309-48-4
K ₂ O + Na ₂ O (As Na ₂ O)	0.5 ± 0.2	1313-59-3

NOTES : Limit set for the compound as whole, NOT the individual components

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures Most Important Symptoms and Effects Both Acute

- EYES : Irrigate with copious quantities of clean water or saline solution for at least 15 minutes. Seek medical attention if discomfort persist. Continue irrigating the eyes with clean water or saline solution while transporting to medical facility.
- SKIN : Remove dusty clothing. Wash skin with tepid soapy water, shower if required. Apply skin moisturizer.
- INGESTION : Wash mouth and lips with water. Do not induce vomiting. Give water or milk to dilute stomach contents. Seek medical attention, if symptoms persist.
- INHALATION : Move immediately to fresh air. Seek medical attention, if symptoms persist.
- FIRST AID FACILITIES : Eyes Wash Station.

NOTES : Advice to Doctor.
Treat as for moderate to strong alkali.
Treat symptomatically.
Contact a Poisons Information Center.

SECTION 5: FIRE-FIGHTING MEASURES

This product is non-flammable and does not cause dust explosions. Does not support combustion of other material.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing

6.2. Environmental Precautions

Prevent entry to sewers and public waters

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Place spilled material into a container. Avoid actions that cause the cement clinker dust or cement to become airborne. Avoid inhalation of clinker dust or cement and contact with skin. Wear appropriate protective equipment as described in Section 8

Methods for Cleaning Up: Scrape wet cement and place in container. Allow material to dry or solidify before disposal. Do not wash cement clinker or cement down sewage and drainage systems or into bodies of water (e.g. streams).

SECTION 7: HANDLING AND STORAGE

For handling, follow safe manual handling practices. Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust can not be avoided, see personal protection recommendations.

SECTION 8: EXPOSURE CONTROLS/PERSONEL PROTECTION

MANUFACTURER'S
RECOMMENDATIONS:

- Keep exposure to dust as low as practical
- If inspirable dust level are kept below 2 mg/m^3 , health problems such as respiratory irritation may be minimized.
- Avoid repeated skin contact with wet clinker dust.

Contact lenses pose a special problem : Soft lenses may absorb irritants and all lenses concentrate them. Do not wear contact lenses in the dusty area.

ENGINEERING CONTROLS :

Avoid generating dust. All work with clinker should be carried out in such a way to minimize exposure to dust and repeated skin contact.

VENTILATION :

Use local mechanical ventilation or extraction in areas where dust generated whilst handling clinker, could escape into the enclosed work environment.

RESPIRATORY PROTECTION :

If dust is generated wear a suitable particulate respirator. Person with a history of respiratory illness or reduced pulmonary fuction should avoid places with high dust levels. Avoid creating hazardous dust during handling. Do not breathe this dust as it may contain various quantities of crystalline silica.

EYE PROTECTION :

Safety spectacles with side shields or safety goggles should be worn if dust is likely to be generated

SKIN PROTECTION : Use impervious elbow length gloves, such as PVC, impervious boots and full length clothing to protect the skin from contact with the dust, particularly wetted dust. After working with this product, workers are advised to shower with soap and water and apply a skin moisturizer. Work clothes should be washed regularly.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT : Always wear suitable protective clothing & use respiratory equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Grey Granules
ODOR : Odorless
BOILING / MELTING POINT : Melting Point > 1200 °C
AUTOIGNITION TEMP. (°C) : N/A
SPECIFIC GRAVITY : 3.1 - 3.2 gr/cc
SOLUBILITY IN WATER : Insoluble
SOLUTION pH : 11 - 13
BULK DENSITY : 1100 - 1400 kg/m³

SECTION 10: STABILITY AND REACTIVITY

STABILITY : Stable
CONDITIONS TO AVOID (STABILITY) : Avoid Moisture
INCOMPABILITY (MATERIAL TO AVOID) : No hazardous incompatibilities are reported.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS : Calcium hydroxide form when water contact with clinker; this is an alkaline, abrasive and hygroscopic (moisture absorbing) material.
HAZARDOUS POLYMERIZATION : Will not occur.
CONDITIONS TO AVOID (POLYMERIZATION) : None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Ingredient(s)

LIMIT AND TOXICITY DATA: - 8 hr. TWA - PEL 10 mg/m³ (total dust)
- 8 hr. TWA - PEL 5 mg/m³ (respirable fraction)
ACGIH TLV - TWA : 10 mg/m³ (nuisance dust)
No toxicity data documented.

SECTION 12: ECOLOGICAL INFORMATION

Degradasi biologic : equipment for measure biodegradability can not be used for inorganic material
Biodegradability

SECTION 13: DISPOSAL CONSIDERATIONS

This product should be disposed of in accordance with requirements of local authorities. Keep out of sewer and storm water drains.

SECTION 14: TRANSPORT INFORMATION

UN Number

None

UN Proper Shipping Name

None

Transport Hazard Class

Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA DGR

SECTION 15: REGULATORY INFORMATION

No special precautions required for regulation.

SECTION 16: OTHER INFORMATION

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The information in this document is believed to be accurate. Please check the currency of this SDS by contacting this Company.

Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including conjunction with other products.

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