

**CALAVERAS CEMENT CO –
PORTLAND CEMENT FOR CONCRETE AND MORTAR -- 5610-00N060940**

===== Product Identification =====

Product ID:PORTLAND CEMENT FOR CONCRETE AND MORTAR

MSDS Date:11/20/1989

FSC:5610

NIIN:00N060940

MSDS Number: BXXDD

=== Responsible Party ===

Company Name:CALAVERAS CEMENT CO

Address:KERN COUNTY

City:MONOLITH

State:CA

ZIP:92548

Country:US

Info Phone Num:415-256-8837

Emergency Phone Num:805-822-4445

Preparer's Name:C TRUSTY

CAGE:00050

=== Contractor Identification ===

Company Name:CALAVERAS CEMENT COMPANY

Address:7677 OAKPORT STREET, SUITE 400

Box:City:OAKLAND

State:CA

ZIP:94621

Phone:(916)275-1581 (STAN CRAMER)

CAGE:00050

===== Composition/Information on Ingredients =====

Ingred Name:TRICALCIUM SILICATE; (3CAO-SIO*2)

CAS:12168-85-3

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:DICALCIUM SILICATE; (2CAO.SIO2)

CAS:10034-77-2

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:TRICALCIUM ALUMINATE; (3CAO.AL2O3)

CAS:12042-78-3

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:TETRACALCIUM ALUMINOFERRATE; (4CAO.AL2O3.FE2O3)

CAS:12068-35-8

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:GYPSUM; (CASO4.XH2O)

CAS:13397-24-5

RTECS #:MG2360000

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:CALCIUM OXIDE; (CAO) (SMALL AMOUNT)
CAS:1305-78-8
RTECS #:EW3100000
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3

Ingred Name:MAGNESIUM OXIDE; (MGO) (SMALL AMOUNT)
CAS:1309-48-4
RTECS #:OM3850000
OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3; FUME

Ingred Name:POTASSIUM SULFATE; (K2SO4) (SMALL AMOUNT)
CAS:7646-93-7
RTECS #:TS7200000
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:SODIUM SULFATE; (NA2SO4) (SMALL AMOUNT)
CAS:7757-82-6
RTECS #:WE1650000
OSHA PEL:N/K
ACGIH TLV:N/K

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===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: WET CEMENT, ESPECIALLY AS
INGREDIENT IN PLASTIC (UNHARDENED) CONCRETE, MORTAR/SLURRIES CAN
DRY SKIN & CAUSE CAUSTIC BURNS. DIRECT CONT W/EYES CAN CAUSE IRRIT.
INHAL CAN IRRIT UPPER RESP SYS. CHRONIC: CEMENT DUST CAN CAUSE
INFLAMM OF LINING TISS OF INTERIOR OF NOSE & INFLAMM OF CORNEA.
(EFFECTS OF OVEREXPOSURE)
Explanation of Carcinogenicity:NOT RELEVANT.
Effects of Overexposure:HEALTH HAZ: HYPERSENSITIVE INDIVIDUALS MAY
DEVELOP ALLERGIC DERM. (CEMENT MAY CONTAIN TRACE (LESS THAN 0.05%)
AMOUNTS OF CHROMIUM SALTS/COMPOUNDS INCL HEXAVALENT CHROMIUM/OTHER METALS
FOUND TO BE HAZ/TOX IN SOME CHEMICAL FORMS. THESE METALS ARE MOSTLY
PRESENT AS TRACE SUBSTITUTIONS WITHIN PRINCIPAL MINERALS).
Medical Condition Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:EYES: IRRIGATE IMMEDIATELY AND REPEATEDLY WITH WATER FOR AT
LEAST 15 MINUTES AND GET PROMPT MEDICAL ATTENTION. SKIN: FLUSH WITH
COPIOUS AMOUNTS OF WATER. SEE MSDS. INHALATION: REMOVE TO FRESH AIR
. SUPPORT BREATHING (GIVE OXYGEN OR ARTIFICIAL RESPIRATION) .
INGESTION: CALL MSDS IMMEDIATELY .

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===== Fire Fighting Measures =====

Flash Point:NON-COMBUSTIBLE.
Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE.

===== Accidental Release Measures =====

Spill Release Procedures:USE DRY CLEANUP METHODS THAT DO NOT DISPERSE THE DUST INTO THE AIR. AVOID BREATHING THE DUST. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:PRECAUTIONS MUST BE TAKEN, CEMENT BURNS WITH LITTLE WARNING. LITTLE HEAT IS SENSED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IN DUSTY ENVIRONMENT, THE USE OF A NIOSH/MSHA APPROVED RESPIRATOR IS RECOMMENDED. TOTAL DUST CONTAINING NO ASBESTOS AND LESS THAN 1% SILICA-10MG/M3 (ACGIH TLV); TOTAL DUST-50 MILLION PARTICLE/FT3 (OSH A PEL (TRANSITIONAL)); TOTAL (SUP DAT)

Ventilation:LOCAL EXHAUST CAN BE USED TO CONTROL AIRBORNE DUST LEVELS.

Protective Gloves:IMPERVIOUS, ABRASION & ALKALI-RESISTANT.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS .

Other Protective Equipment:EMER EYEWASH & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA . WEAR BOOTS PROT CLTHG TO PREVENT SKIN (SUP DAT)

Work Hygienic Practices:USE BARRIER CREAMS. IMMED AFTER WORKING W/CEMENT/CEMENT-CONTAINING MATLS, WORKERS SHOULD SHOWER W/SOAP & WATER.

Supplemental Safety and Health

OTHER PROT EQUIP: FROM PRLNG CONT W/WET CEMENT IN PLASTIC CONCRETE, MORTAR OR SLURRIES. RESP PROT: DUST-10MG/M3 RESPIRABLE DUST-5MG/M3 (OSHA PEL (FINAL)).

===== Physical/Chemical Properties =====

Spec Gravity:3.15 (H*20=1)

pH:12.4

Solubility in Water:SLIGHT (0.1-1.0%)

Appearance and Odor:GRAY TO WHITE POWDER, NO ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALUMINUM POWDER AND OTHER ALKALINE EARTH ELEMENTS WILL REACT WITH WET MORTAR OR CONCRETE.

Stability Condition to Avoid:KEEP DRY UNTIL USE.

Hazardous Decomposition Products:HYDROGEN GAS.

===== Disposal Considerations =====

Waste Disposal Methods:SMALL AMOUNTS OF MATERIAL CAN BE DISPERSED OF AS COMMON WASTE OR RETURNED TO THE CONTAINER FOR LATER USE IF IT IS NOT CONTAMINATED. LARGE VOLUMES MAY REQUIRE SPECIAL HANDLING. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS

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