Material Safety Data Sheet

MANUFACTURERS NAME
California Portland Cement Company

DATE
11-09-90

MSDS NUMBER
0006

PREPARER
Grady

ADDRESS
695 South Rancho Road
Colton, CA 92324

EMERGENCY TELEPHONE NUMBER
(714) 825-4260

SECTION I

CHEMICAL FAMILY
Calcium Compounds

TRADE NAME & SYNONYMS
Cement Kiln Dust

CHEMICAL NAME & SYNONYMS & FORMULAS
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>TLV's</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Kiln Dust</td>
<td>(68475-76-3)</td>
<td>N/A</td>
</tr>
<tr>
<td>CaO</td>
<td>(1305-78-8)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Ca(OH)₂</td>
<td>(1305-62-0)</td>
<td>5 mg/m³</td>
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</tbody>
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SECTION II - HAZARDOUS INGREDIENTS

Cement Kiln Dust is not listed by NTP, IARC, or OSHA as containing carcinogens. Cement Kiln Dust is hygroscopic and as such can dry the skin and cause alkali burns.

SECTION III - PHYSICAL DATA

BOILING POINT
N/A, as a cement kiln dust is a powdered solid

SPECIFIC GRAVITY
2.8

VAPOR PRESSURE
N/A, as cement kiln dust is a powdered solid

PERCENT VOLATILE BY VOLUME
0%

VAPOR DENSITY
N/A, as cement kiln dust is a powdered solid

EVAPORATION RATE
N/A, as cement kiln dust is a powdered solid

SOLUBILITY IN WATER
Slight

APPEARANCE AND ODOR
Tan-colored powder; no odor
SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT
Cement kiln dust is noncombustible and nonexplosive

SPECIAL FIREFIGHTING PROCEDURES
N/A

FLAMMABLE OR EXPLOSIVE LIMITS
N/A

UNUSUAL FIRE & EXPLOSION HAZARDS
None

EXTINGUISHING MEDIA
N/A

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV)
Respirable Dust - 5 mg/m³
Total Dust - 5 mg/m³

EFFECTS OF OVEREXPOSURE
Acute: Cement kiln dust can dry the skin and cause alkali burns. Cement kiln dust can irritate the eyes and upper respiratory system.

Chronic: Cement kiln dust can cause inflammation of the lining tissue in the interior of the nose and inflammation may develop an allergic dermatitis (skin rash). Cement kiln dust contain trace amounts (<0.01%) of chromium including hexavalent chromates. Chromates have been associated with contact dermatitis and skin ulcerations. Some individuals may become allergically sensitized to chromates. Chromium and certain chromium compounds are listed on the NTP and IARC lists of carcinogens.

EMERGENCY & FIRST AID PROCEDURES
Irrigate eyes with water; consult physician.
Wash exposed skin areas with soap and water.
If ingested consult physician immediately. Give water. Induce vomiting.

SECTION VI - REACTIVITY DATA

STABILITY
Product is stable. Keep dry until used.

HAZARDOUS DECOMPOSITION PRODUCTS
None

INCOMPATIBILITY
Use Caution if mixed with strong acid.

HAZARDOUS POLYMERIZATION
Will not occur.

SECTION VII - SPILL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED
Use dry cleanup methods that do not disperse the dust into the air.

WASTE DISPOSAL
Material can be returned to container for later use, or it can be disposed of as an industrial waste. Slurry with water before disposal.
SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
The use of a NIOSH/MSHA approved respirator is recommended. Based on airborne concentrations.

SKIN PROTECTION
Use barrier creams, gloves, boots, and clothing to protect the skin from prolonged contact with cement kiln dust. Immediately after working with cement kiln dust, workers should shower with soap and water. Precautions must be observed because cement kiln dust burns with little warning - little heat is sensed.

VENTILATION
Local exhaust can be used to control airborne dust levels.

EYE PROTECTION
The use of tight fitting goggles is recommended.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep dry, will absorb H₂O & CO₂ from air.

OTHER PRECAUTIONS
None

SECTION X - CALIFORNIA PROP. 65 WARNINGS

While Cement Kiln Dust is not listed by NTP, IARC, or OSHA as containing carcinogens, certain trace metal compounds are listed on the NTP and IARC lists of carcinogens.

WARNING: This product or area of its manufacture contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

The above warning is given for the following compounds present in trace amounts: hexavalent chromium, mercury compounds, nickel compounds, crystalline silica (Quartz), which are above the no significant risk level, if one is given.

NIOSH conducted a study, "The Mortality of U.S. Portland Cement and Quarry Workers" (March 1985) which found: "There is no excess mortality from all causes of death, lung cancer, non-malignant respiratory disease, or ischemic heart disease" among workers studied.

This Warning required by section 25249.6 of the California Health and Safety Code.
SECTION XI - ABBREVIATIONS

ACGIH
American Conference of Governmental Industrial Hygienists

CAS
Chemical Abstract Service

CFR
Code of Federal Regulations

FR
Federal Register

IARC
International Agency for Research on Cancer

m³
Cubic Meter

mg
Milligram

OSHA
Occupational Safety and Health Administration

TLV's
Threshold Limit Values

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet, however, no warranty or representation, express or implied, is made to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.