



**MATERIAL SAFETY DATA SHEET**  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

**DATE OF LAST REVISION: 04-23-96**

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>CALCIUM OXIDE</b>
CHEMICAL NAME/SYNONYMS	<b>CALCIUM OXIDE</b>
FORMULA	<b>CaO</b>
CHEMICAL FAMILY	<b>OXIDE</b>
CAS REGISTRY NUMBER	<b>LISTED IN THE TSCA INVENTORY</b>
HAZARDOUS INGREDIENTS	<b>CALCIUM OXIDE</b>
%: <b>100</b>	TLV: <b>5mg/m3</b> OSHA/PEL: <b>5mg/M3</b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Colorless crystals or powder, no odor</b>
BOILING POINT	<b>2850</b>
DENSITY (gm/cc)	<b>3.37</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>NA</b>
EVAPORATION RATE (H2O=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Soluble</b>
MELTING POINT	<b>2580</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>NA</b>
AUTOIGNITION TEMPERATURE (°C)	<b>NA</b>
FLAMMABILITY	<b>Non-combustible</b>
EXTINGUISHING MEDIA	<b>Use dry chemical, CO<sub>2</sub>, contact with water may generate sufficient heat to ignite combustible materials</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Wear a self-contained breathing apparatus</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>None Known</b>



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### HEALTH HAZARD INFORMATION

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#### TOXICITY DATA

**Na**

#### HMIS RATING:

HEALTH: **ND** FLAMMABILITY: **ND** REACTIVITY: **ND** PERSONAL PROTECTION: **ND**

#### ROUTES OF ENTRY

INHALATION: **Yes**  
SKIN: **Yes**  
INGESTION: **Yes**

#### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

**ND**

#### EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **of dust for prolonged periods of time at high dust concentrations may result in coughing, sneezing, burning sensations to the upper respiratory tract and possible inflammation of the respiratory passages.**

DERMAL: **will result in irritation and possible corrosion damage**

EYE: **severe burning sensation may result**

INGESTION: **of sufficient quantities of this material is not likely to occur in an industrial environment. Calcium compounds usually have a low order of toxicity, however corrosive properties of the material may result in a burning of the digestive tract tissue.**

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CARCINOGENICITY: **ND** NTP: **No** IARC MONOGRAPHS: **No** OSHA REGULATE: **No**

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#### EMERGENCY FIRST AID PROCEDURES:

INGESTION: **if conscious have victim drink plenty of water, DON'T induce vomiting.**

INHALATION: **Remove to fresh air, perform artificial respiration breathing stopped**

SKIN CONTACT: **Wash affected area with soap and water**

EYE CONTACT: **Flush eyes for at least 15 minutes with lukewarm water.**

**\*in all cases seek medical attention\***

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### REACTIVITY DATA

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#### STABILITY

**Stable**

CONDITIONS CONTRIBUTING TO UNSTABILITY  
INCOMPATIBILITY (MATERIALS TO AVOID)

**None known**  
**Boric oxide, acids, fluorine, water, steam and organic materials**

#### HAZARDOUS DECOMPOSITION PRODUCTS

**None known**

#### HAZARDOUS POLYMERIZATION

**Will Not Occur**

#### CONDITIONS TO AVOID

**None known**



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### SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Avoid dusting and skin or eye contact, sweep up and transfer to a sealed container.**

WASTE DISPOSAL METHOD:

**Consult federal, state and local regulations for proper disposal.**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION	<b>NIOSH approved respirator if ventilation controls are not possible or inadequate</b>
LOCAL EXHAUST	<b>Fume hood</b>
MECHANICAL (general)	<b>NA</b>
SPECIAL	<b>NA</b>
OTHER	<b>NA</b>
PROTECTIVE GLOVES	<b>Rubber</b>
EYE PROTECTION	<b>Safety glasses</b>
OTHER PROTECTIVE EQUIPMENT	<b>Wear protective clothing</b>

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### SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

**Store material in sealed containers in a dry area. Protect containers from physical damage. Avoid contact with moisture**

TRANSPORTATION REQUIREMENTS	DOT CLASS:	<b>NA</b>
	UN NUMBER:	<b>NA</b>
	IMCO CLASS:	<b>NA</b>
	OTHER:	

PRECAUTIONARY LABELING **NONE**

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**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**