

LTS RESEARCH LABORATORIES, INC.
MATERIAL SAFETY DATA SHEET
CALCIUM HYDROXIDE

GENERAL

MANUFACTURER/SUPPLIER: LTS RESEARCH LABORATORIES, INC.

COMPANY'S STREET: 37 RAMLAND ROAD
COMPANY'S CITY: ORANGEBURG
COMPANY'S STATE: NEW YORK
COMPANY'S ZIP CODE: 10962
EMERGENCY CHEMTREC #: 800-262-8200
COMPANY'S EMERGENCY TEL. #: 800-424-9300 (LOCAL)
703-527-3887 (INTERNATIONAL)
COMPANY'S TEL #: 845-494-2940
DATE MSDS PREPARED: 02/03/05
DATE MSDS REVISED: 11/05/12

1. PRODUCT IDENTIFICATION

TRADE NAME: CALCIUM HYDROXIDE
CHEMICAL FORMULA: $\text{Ca}(\text{OH})_2$
CAS NUMBER: 1305-62-0

2. HAZARDS IDENTIFICATION

HAZARD DESCRIPTION: C CORROSIVE
DANGER FOR MAN: R 34 CAUSES BURNS

CLASSIFICATION SYSTEM
HMIS RATINGS (SCALE 0-4)

HEALTH:	2
FIRE:	0
REACTIVITY:	1

3. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE: WHITE POWDER, ODORLESS
BOILING POINT: NOT DETERMINED
MELTING POINT: 580 C
SUBLIMATION TEMP. NOT DETERMINED
FLASH POINT: NOT APPLICABLE
VAPOR PRESSURE (MM HG/70 F): N/A
VAPOR DENSITY (AIR=1): N/A
FLAMMABILITY
(SOLID, GASEOUS) PRODUCT DOES NOT PRESENT AN EXPLOSION HAZARD.
SOLUBILITY IN WATER: N/A
PERCENT VOLATILES BY VOLUME: N/A
AUTOIGNITION TEMPERATURE: N/A

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: COMBUSTIBLE
FLASH POINT METHOD: N/P
EXPLOSIVE LIMITS:

LOWER: N/A
UPPER: N/A
EXTINGUISHING MEDIA: CO2, SAND OR EXTINGUISHING POWDER. DO NOT USE WATER.
SPECIAL FIRE FIGHTING PROC: WEAR SELF-CONTAINED RESPIRATOR
UNUSUAL FIRE AND EXPL HAZRDS: IN CASE OF FIRE, METAL OXIDE FUMES CAN BE RELEASED.

5. REACTIVITY DATA

STABILITY: YES
CONDITION TO BE AVOIDED: DECOMPOSITION WILL NOT OCCUR IF USED AND STORED ACCORDING TO SPECIFICATIONS
MATERIALS TO BE AVOIDED: ACIDS
DANGEROUS REACTIONS: NO DANGEROUS REACTIONS KNOWN.
DANGEROUS PRODUCTS OF DECOMPOSITION: METAL OXIDE FUME

6. HEALTH HAZARD DATA

LD-LC50 MIXTURE:
ORAL: LD50 7300 MG/KG (MUS)
7340 MG/KG (RAT)
IRRITATION TO EYES: SEVERE, 10MG (RBT)
PRIMARY IRRITANT EFFECT:
ON SKIN: CORROSIVE EFFECT ON SKIN AND MUCOUS MEMBRANES
ON THE EYE: STRONG CORROSIVE EFFECT. IRRITATING EFFECT.
SUBACUTE TO CHRONIC TOXICITY: CORROSIVE MATERIALS ARE ACUTEL DESTRUCTIVE TO THE RESPIRATORY TRACT, EYES, SKIN AND DIGESTIVE TRACT. EYE CONTACT MAY RESULT IN PERMANENT DAMAGE AND COMPLETE VISION LOSS. INHALATION MAY RESULT IN RESPIRATORY EFFECTS SUCH AS INFLAMMATION, EDEMA, AND CHEMICAL PNEUMONITIS. MAY CAUSE COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING. INGESTION MAY CAUSE DAMAGE TO THE MOUTH, THROAT AND ESOPHAGUS. MAY CAUSE SKIN BURNS OR IRRITATION DEPENDING ON THE SEVERITY OF THE EXPOSURE. SWALLOWING WILL LEAD TO A STRONG CORROSIVE EFFECT ON MOUTH AND THROAT AND TO THE DANGER OF PERFORATION OF ESOPHAGUS AND STOMACH.

CARCINOGENICITY:
NTP: NO
IARC: NO
OSHA: NO
SYMPTOMS OF OVEREXPOSURE: IRRITATE EYES
MED COND AGGRAVATED BY EXP: RESPIRATORY CONDITIONS.
FIRST AID PROCEDURE: SEEK MEDICAL ASSISTANCE

7. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED/ SPILLED: USE NEUTRALIZING AGENT. DISPOSE CONTAMINATED MATERIAL AS WASTE. ENSURE ADEQUATE VENTILATION.
WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
HAZARD LABEL INFORMATION: CORROSIVE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST, MIST RESPIRATOR.
VENTILATION:
LOCAL EXHAUST: TO MAINTAIN CONCENTRATION AT OR BELOW TLV.
MECHANICAL (GENERAL): RECOMMENDED
SPECIAL: NONE
OTHER: NONE
PROTECTIVE GLOVES: NEOPRENE OR EQUIVALENT GLOVES
EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELD
OTHER PROT. CLOTHING/EQUIPM.: PROTECTIVE GEAR SUITABLE TO PREVENT
CONTAMINATION.
WORK/HYGIENIC/MAINTENANCE: IMPLEMENT ENGINEERING AND WORK PRACTICE
CONTROLS TO REDUCE AND MAINTAIN CONCENTRATION
OF EXPOSURE AT LOW LEVELS. USE GOOD HOUSEKEEPING
AND SANITATION PRACTICES. DO NOT USE TOBACCO OR
FOOD IN WORK AREA. WASH THOROUGHLY BEFORE
EATING AND SMOKING. DO NOT BLOW DUST OFF
CLOTHING OR SKIN WITH COMPRESSED AIR.

9. TRANSPORTATION DATA

DOT REGULATIONS:
HAZARD CLASS: 8
IDENTIFICATION NUMBER: UN3262
PACKING GROUP: III
PROPER SHIPPING
NAME (TECHNICAL NAME): CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CALCIUM
HYDROXIDE)
LAND TRANSPORT ADR/RID
(CROSS-BORDER)
ADR/RID CLASS: 8 CORROSIVE GAS
DANGER CODE (KEMLER): 80
UN-NUMBER: 1401
DESCRIPTION OF GOODS: CALCIUM HYDROXIDE
MARITIME TRANSPORT IMDG:
IMDG CLASS: 8
UN NUMBER: 3262
PACKAGING GROUP: II
PROPER SHIPPING NAME: CALCIUM HYDROXIDE
AIR TRANSPORT ICAO-TI AND IATA- 8
UN/ID NUMBER: 3262
PACKAGING GROUP: III
PROPER SHIPPING NAME: CALCIUM HYDROXIDE
REGULATIONS
PRODUCT RELATED HAZARD
INFORMATION:
HAZARD SYMBOLS: CORROSIVE
RISK PHRASES: 34 CAUSES BURNS
SAFETY PHRASES: 20 WHEN USING DO NOT EAT OR DRINK.

26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES, AND EYE/FACE PROTECTION

45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY.

60 THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.

NATIONAL REGULATIONS

ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE U.S. ENVIRONMENTAL PROTECTION AGENCY TOXIC SUBSTANCES CONTROL ACT CHEMICAL SUBSTANCE INVENTORY.

INFORMATION ABOUT LIMITATION OF USE:

FOR USE ONLY BY TECHNICALLY QUALIFIED INDIVIDUALS.

10. OTHER INFORMATION

THIS SAFETY DATA SHEET SHOULD BE USED IN CONJUNCTION WITH TECHNICAL SHEETS. IT DOES NOT REPLACE THEM. THE INFORMATION GIVEN IS BASED ON OUR KNOWLEDGE OF THIS PRODUCT, AT THE TIME OF PUBLICATION. IT IS GIVEN IN GOOD FAITH. THE ATTENTION OF THE USER IS DRAWN TO THE POSSIBLE RISKS INCURRED BY USING THE PRODUCT FOR ANY OTHER PURPOSE OTHER THAN THAT FOR WHICH IT WAS INTENDED. THIS DOES NOT IN ANY WAY EXCUSE THE USER FROM KNOWING AND APPLYING ALL THE REGULATIONS GOVERNING HIS ACTIVITY. IT IS THE SOLE RESPONSIBILITY OF THE USER TO TAKE ALL PRECAUTIONS REQUIRED IN HANDLING THE PRODUCT. THE AIM OF THE MANDATORY REGULATIONS MENTIONED IS TO HELP THE USER TO FULFILL HIS OBLIGATIONS REGARDING THE USE OF HAZARDOUS PRODUCTS.