

MATERIAL SAFETY DATA SHEET

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PREPARED BY

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SECTION 1-PRODUCT IDENTIFICATION AND INFORMATION

IDENTITY (TRADE NAME)

LIME SLURRY

CHEMICAL NAME

CALCIUM HYDROXIDE

CHEMICAL FAMILY

LIME OR ALKALINE EARTH HYDROXIDE

FORMULA

Ca (OH)₂

DOT IDENTIFICATION NUMBER

NONE

DOT HAZARD CLASSIFICATION

NONE

CAS NUMBER 1305-62-0

<u>COMPONENTS</u>	<u>FORMULA</u>	<u>CAS NUMBER</u>	<u>APPROX. %(WT.)</u>	<u>ACGIG TLV</u>
CALCIUM OXIDE	CaO	1305-78-8	71.32	10 mg. Per cu. Meter
SILICON DIOXIDE	SiO ₂		1.00	
CARON DIOXIDE	CO ₂		1.04	
TRACE ELEMENTS			2.48	
CHEMICALLY COMBINED WATER			24.16	

HFPA RATING: HEALTH 1 FLAMMABILITY 0 REACTIVITY 1 SPECIAL NONE

SECTION II-PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT

DECOMPOSES @ 1076 DEGREES F. TO CaO

SPECIFIC GRAVITY

TRUE 2.2-2.4

VAPOR PRESSURE (NON-AEROSOL)

NIL

VAPOR DENSITY

NON-VAPOROUS

SOLUBILITY IN WATER BY WT.

0.18g./100g. ROOM TEMPERATURE

VOLATILES BY VOLUME

NON-VOLATILE

EVAPORATION RATE

NIL

PH (AS. IS)

PH (SATURATED SOL.) 12.6

APPEARANCE AND ODOR

WHITE, OFF-WHITE; FAINT MUSTY, EARTHY ODOR.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	AUTOIGNITION TEMPERATURE
NON EXPLOSIVE	N/A
FLAMMABLE LIMITS	LEL UEL
N/A	N/A N/A
EXTINGUISHING MEDIA	SPECIAL FIRE-FIGHTING PROC.
NON-COMBUSTIBLE	N/A
UNUSUAL FIRE AND EXPLOSIV HAZARD	
HYDRATED LIME IN ITSELF IS NOT FLAMMABLE BUT IF IT COMES IN CONTACT WITH WATER, IT COULD HYDRATE FURTHER EVLOVING HEAT WHICH COULD IGNITE PAPER, WOOD OR RAGS IF THEY COME IN CONTACT WITH IT DURING THE HYDRATION PROCESS.	

SECTION IV - REACTIVITY DATA

STABILITY	HAZARDOUS PLOYMERIZATION
STABLE UNLESS IT COMES IN CONTACT WITH WATER, HUMID AIR, OR ACID	WILL NOT OCCUR
CONDITIONS TO AVOID	
WATER LEAKS IN BULK STORAGE TANKS WILL TURN THE LIME INTO A SLURRY. HIGH ATMSPHERIC HUMIDITY CAN AIR-SLAKE HYDRATED LIME CAUSING THE LIME TO RECARBONATE.	
INCOMPATIBILITY	
SHOULD NOT BE MIXED OR STORED IN CONTACT WITH CHEMICALS THAT ARE MOIST OR HAVE WATER OR CRYSTALLIZATION TO PREVENT FURTHER HYDRATION.	
HAZARDOUS DECOMPOSITION PRODUCTS	
NONE	

SECTION V - HEALTH HAZARD DATA

ROUTES OF EXPOSURE	HAZARD CLASSIFICATION	BASIS	SOURCE
INHALATION	NIL (EXCEPT FOR POSSIBLY EXTREMELY CONCENTRATED PROLONGED INHALATION)		
SKIN CONTACT	HYDRATED LIME IS NEITHER A CORROSIVE SUBSTANCE NOR A PRIMARY IRRITANT FOR DRY SKIN. MOIST SKIN CAN CAUSE BURNS IF LEFT IN CONTACT WITH HYDRATED LIME OVER LONG PERIODS OF TIME.		
SKIN ABSORPTION	NIL		

**SECTION V – HEALTH HAZARD DATA
(CONTINUED)**

EYE CONTACT SEVERE IRRITANT, THE ONLY SERIOUS HAZARD PERTAINS TO EYES. THE SENSITIVE, MOIST MEMBRANES IN THE EYBALL COULD BE BURNED SEVERLY, CAUSING BLINDNESS.

INDIGESTION NON-TOXIC

EFFECTS OF OVEREXPOSURE

ACUTE N/A

CHRONIC N/A

CARCINOGENICITY: NTP? NONE IARC? NONE OSHA REG. NO

EMERGENCY AND FIRST AID PROCEDURES

EYES FLUSH OUT EYE THOROUGHLY WITH WATER AND CALL DR. IMMEDIATELY.

SKIN WASH EXCESS OFF SKIN IMMEDIATELY. APPLY STANDARD OINTMENT FOR BURNS. SEE PHYSICIAN IF REDNESS OF IRRITATION CONTINUES.

INHALATION NIL

INGESTION NIL (ALKALINITY OF LIME COULD BE NEUTRALIZED BY DRINKING DILUTED VINEGAR OR BORIC ACID SOLUTION)

SECTION VI - DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY

AT SITE OF THE SPILL, THE HYDRATED LIME WILL CAUSE THE PH OF THE AREA TO RISE TO 9.5-10.5, WHICH MAY KILL SOME AQUATIC LIFE IN THE IMMEDIATE AREA. NATURAL CURRENTS, WIND AND AGITATION FROM BOAT TRANSPORT CAUSES THE MICRO-SIZED LIME HYDRATE PARTICLES TO DISEMINATE RAPIDLY OVER A WIDE AREA. THE RESULTING DILUTION CAUSES THE PH TO DROP BELOW 9 WITHIN MINUTES OR LESS.

WASTE DISPOSAL METHOD

1. TO NEUTRALIZE ACID WASTES
2. APPLY TO FARMER'S FIELDS, GRASSLANDS IN PARKS, GOLF COURSES, ETC.
3. CONTROLLED DISCHARGED INTO SEWERS WITH SEWAGE PLANT'S APPROVAL (USUALLY BENEFICIAL OR NON-HARMFUL TO PROCESS).

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

1. FOR INLAND WATERWAYS, SALVAGE OR RECOVERY OF BULK HYDRATED LIM IS FUTILE. AGITATING THE SITE OF THE SPILL WITH OUTBOARD MOTOR, ETC. WILL ACCELERATE DISTRIBUTION OF LIME OVER A WIDE AREA SO THAT RESULTING DILUTION RENDERS IT HARMLESS.

2. FOR SPILLS ON LAND MOST CAN BE RECOVERED BY SCOOPING OR SHOVELING FROM LAND, ROAD, ETC.

NEUTRALIZING CHEMICALS

ANY STRONG ACIDS: H₂so₄, HCL, ETCL

SECTION VII - SPECIAL PROTECTION INFORMATION**VENTILATION REQUIREMENTS
NORMAL****SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**

THE FOLLOWING EQUIPMENT SHOULD BE USED WHEN WORKER IS IN DIRECT CONTACT WITH HYDRATED LIME FOR PROLONGED PERIODS.

RESPIRATORY -TIGHT FITTING GOGGLES

GLOVES -GAUNTLET TYPE WORK GLOVES

OTHER -FULL LENGTH SHIRT WITH COLLAR THAT BUTTONS AT NECK, LONG PANTS THAT FIT OVER BOOTS OR WORK SHOES; A CAP FOR HEAD; AVOID ALLOWING LIME TO REMAIN ON SKIN IN AREAS WHERE CLOTHING FITS TIGHTLY AND COULD CHAPE OR RUB. IF LIME GETS INSIDE OR SHOES, REMOVE AND CLEAN OUT IMMEDIATELY.

SECTION VIII - SPECIAL PRECAUTIONS**PRECAUTIONARY STATEMENTS**

CAUTION - PROLONGED CONTACT WITH HYDRATED LIME IN THE PRESENCE OF MOISTURE MAY CAUSE IRRITATION OR BURNS TO WET SKIN. IN CASE OF CONTACT WITH EYES, FLUSH THOROUGHLY WITH WATER AND CALL A PHYSICAIN IMMEDIATELY. KEEP OUT OF REACH OF CHILDREN.

OTHER HANDLING AND STORAGE REQUIREMENTS

HYDRATED LIME IS A SAFE MATERIAL TO USE IF WORKERS WILL ONLY FOLLOW A FEW PRECAUTIONS AND DRESS RPROPERLY (AS DESCRIBED IN SECTION VII).

DON'T PERMIT HYDRATED LIME DUST TO ACCUMULATE ON EXPOSED SKIN OR CLOTHING, BRUSH IT OFF.

ONLY SERIOUS HAZARD INVOLVES THE EYES. TO BE SAFE AGAINST UNEXPECTED CONTINGENCIES, WEAR TIGHT-FITTING GOGGLES.

STORAGE - KEEP DRY

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