



KENCRO

CHEMICALS

PRODUCT: HYDRATED LIME FCC (HIGH CALCIUM HYDRATED LIME)

SECTION 1: PRODUCT INFORMATION

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| T.D.G. CLASSIFICATION | NOT LISTED FOR GROUND TRANSPORTATION. |
| UN NUMBER | N.AP. |
| PACKING GROUP | N.AP. |
| PRODUCT NAME | CALCIUM HYDROXIDE, HYDRATED LIME, HIGH CALCIUM HYDRATED LIME, SLAKED LIME |
| WHMIS CLASSIFICATION | E: CORROSIVE D2A: MATERIALS CAUSING OTHER TOXIC EFFECTS |
| CHEMICAL FORMULA | Ca(OH) ₂ |
| MOLECULAR WEIGHT | 74.08 |
| CHEMICAL FAMILY | INORGANIC |
| MATERIAL USE | REFER TO TECHNICAL LITERATURE |

SECTION 2: HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENTS | % | T.L.V. | C.A.S. # | LD/50,ROUTE,SPECIE | LC/50,ROUTE,SPECIE |
|---|------|--------------------------------------|-----------|---------------------------|--------------------|
| CALCIUM HYDROXIDE | 96 | 5mg/m ³ | 1305-62-0 | 7340 MG/KG (ORAL, RAT) | N.A.V. |
| CALCIUM OXIDE | >68 | 2mg/m ³ | 1305-78-8 | N.A.V. | N.A.V. |
| MAGNESIUM OXIDE | <4.5 | 10mg/m ³ | 1309-48-4 | N.A.V. | N.A.V. |
| SILICA (TOTAL) (THIS PRODUCT MAY CONTAIN ABOVE >0.1% RESPIRABLE SILICA DUST) | <2.0 | 0.1mg/m ³ (RESPIRABLE) | 7631-86-9 | N.A.V. | N.A.V. |

SECTION 3: PHYSICAL DATA

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| APPEARANCE | WHITE POWDER |
| PHYSICAL STATE | SOLID |
| ODOUR | ODOURLESS |
| ODOUR THRESHOLD | N.AP. |
| VAPOUR PRESSURE (MMHG) | NON-VOLATILE |
| VAPOUR DENSITY (AIR=1) | NON-VOLATILE |
| EVAPORATION RATE | N.AP. |
| BOILING POINT | DECOMPOSES AT 580°C TO FORM CALCIUM OXIDE |
| MELTING POINT | DECOMPOSES AT 580°C TO FORM CALCIUM OXIDE |
| PH | 12.5-12.8 AT A CONCENTRATION OF 1.600mg/1 (SATURATED SOLUTION) |
| SPECIFIC GRAVITY (WATER=1) | 2.25 |
| SOLUBILITY IN WATER (% W/W) | SLIGHTLY SOLUBLE IN WATER @ 20°C; 1.65g/1 AT 100°C: 0.71 g/1 SOLUBLE IN ACIDS, GLYCERIN AND SUGAR SOLUTIONS |
| COEFFICIENT OF WATER/OIL DIST. | >1 |

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SECTION 4: FIRE AND EXPLOSION DATA

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| FLAMMABILITY | THIS PRODUCT IS NOT FLAMMABLE OR COMBUSTIBLE |
| IF YES, UNDER WHICH CONDITIONS? | |
| EXTINGUISHING MEDIA | CARBON DIOXIDE, DRY CHEMICAL FOAM, WATER |
| SPECIAL PROCEDURES | FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. AVOID WETTING LIME, USE APPROPRIATE EXTINGUISHING MEDIA TO PUT OUT SURROUNDING FIRE |
| FLASH POINT(C), METHOD | NON-FLAMMABLE |
| AUTO IGNITION TEMPERATURE | NON-FLAMMABLE |
| T.D.G. FLAM. CLASS | N.AP. |
| UPPER FLAMMABLE LIMIT (UFL) (% BY VOL) | NONE |
| LOWER FLAMMABLE LIMIT (LFL) (% BY VOL) | NONE |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | NONE |
| HAZARDOUS COMBUSTION PRODUCTS | N.AV. |
| EXPLOSION DATA | |
| SENSITIVITY TO STATIC DISCHARGE | N.AV. |
| SENSITIVITY TO IMPACT | N.AV. |
| RATE OF BURNING | N.AV. |
| EXPLOSIVE POWER | N.AV. |
| EXPLOSION RISK | NONE |

SECTION 5: REACTIVITY DATA

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| CHEMICAL STABILITY | |
| YES | STABLE PRODUCTS, NOT VERY SOLUBLE |
| NO, WHICH CONDITIONS? | REACTS WITH STRONG ACIDS TO PRODUCE HEAT AND POSSIBLE EXPLOSION IN CONFINED SPACES. REACTS WITH ACIDS TO FORM CALCIUM SALTS WHILE GENERATING HEAT. |
| COMPATIBILITY WITH OTHER SUBSTANCES: | |
| YES | |
| NO, WHICH ONES? | WATER; ACIDS; REACTIVE FLUORIDATED, BROMINATED OR PHOSPHOROUS COMPOUNDS; REACTIVE POWDERED METALS; ORGANIC ACID ANHYDRIDES; NITRO-ORGANIC COMPOUNDS; INTERHALOGENATED COMPOUNDS; |
| CONDITIONS TO AVOID | WET PLACES, VICINITY TO INCOMPATIBLE MATERIALS. |
| HAZARDOUS POLYMERIZATION | WILL NOT OCCUR |
| HAZARDOUS PRODUCTS | DECOMPOSES ITSELF INTO CALCIUM OXIDE AT 580°C. CALCIUM OXIDE IS NON-FLAMMABLE, BUT GENERATES HEAT IN PRESENCE OF WATER AND ACIDS. |
| OF DECOMPOSITION | |

SECTION 6: TOXICOLOGICAL PROPERTIES

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| ROUTE OF ENTRY | |
| SKIN CONTACT | REMOVES NATURAL SKIN OILS, BLOTCHES, ITCHING AND SUPERFICIAL BURNS IN CASE OF SWEATING. |
| SKIN ABSORPTION | N.AV. |
| EYE CONTACT | SEVERE IRRITATION, INTENSE TEARING, BURNS AND POSSIBLE BLINDNESS WHEN EXPOSURE IS PROLONGED. |
| INHALATION | IRRITATIONS, SORE THROAT, COUGH, SNEEZING |
| INHALATION, CHRONIC | MAY CAUSE CHRONIC IRRITATION OF THE RESPIRATORY TRACT AND BRONCOPNEUMONIA |
| INGESTION | SORE THROAT, STOMACH ACHES, CRAMPS, DIARRHEA, VOMITING. |
| EFFECTS OF ACUTE EXPOSURE | IRRITATION OR BURNS |
| EFFECTS OF CHRONIC EXPOSURE | DRYING OR CRACKING OF SKIN, BLINKING OF EYE |

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|------------------------------------|---|
| LD 50 MATERIAL, SPECIES & ROUTE | SEE SECTION II |
| LC 50 MATERIAL, SPECIES & ROUTE | SEE SECTION II |
| EXPOSURE LIMIT OF MATERIAL | TWAEV-5mg/cu.m |
| IRRITANCY OF MATERIAL | TO EYES, MUCOUS MEMBRANES AND TO THE SKIN (IN CASE OF SWEATING) |
| SENSITIZING CAPABILITY OF MATERIAL | NONE REPORTED |
| CARCINOGENICITY OF MATERIAL | NONE REPORTED. RESPIRABLE SiO ₂ <u>MAY</u> BE A COMPONENT OF THIS PRODUCT AND IS CLASSIFIED BY IARC AS A GROUP 1 HUMAN CARCINOGEN. |
| REPRODUCTIVE EFFECTS | NONE REPORTED |
| TERATOGENICITY | NONE REPORTED |
| MUTAGENICITY | NONE REPORTED |
| SYNERGISTIC MATERIALS | NONE REPORTED |

SECTION 7: PREVENTATIVE MEASURES

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| GLOVES/TYPE | GAUNTLET TYPE WORK GLOVES (NEOPRENE); USE CLEAN, DRY GLOVES |
| RESPIRATORY/TYPE | IF EXPOSURE CAN EXCEED PEL/TLV, AN APPROVED AIR-PURIFYING OR SUPPLIED AIR RESPIRATOR OPERATED IN A POSITIVE PRESSURE MODE SHOULD BE USED. WEAR ANTI-DUST MASK. |
| EYE/TYPE | SPLASH PROOF EYE GOGGLES. SAFETY GOGGLES. LIGHTWEIGHT FACE MASK. |
| FOOTWEAR/TYPE | WATERPROOF CAUSTIC RESISTANT SHOES |
| CLOTHING /TYPE | COVER BODY WITH SUITABLE CLOTHES (LONG SLEEVES SHIRTS AND TROUSERS COVERING THE WATERPROOF CAUSTIC RESISTANT SHOES) |
| OTHER/TYPE | EYEBATH AND SAFETY SHOWER. |
| ENGINEERING CONTROLS | PROVIDE MECHANICAL VENTILATION IN DUSTY AREAS. |
| LEAK/SPILL | SUBSTANTIAL SPILLS INTO STREAMS OR PONDS SHOULD BE CONTAINED AND NEUTRALIZED WITH ACID. NORMAL CLEAN-UP SPILLS ON LAND. COLLECT AND CONTAIN IN SUITABLE DISPOSAL CONTAINERS. MECHANICAL DRY VACUUMING; FOR SMALL QUANTITIES, WASH ABUNDANTLY WITH WATER. |
| WASTE DISPOSAL | DISPOSE IN SECURE LANDFILL OR IN ACCORDANCE WITH FEDERAL, PROVINCIAL/STATE AND LOCAL ENVIRONMENTAL REGULATIONS. |
| HANDLING PROCEDURES AND EQUIPMENT | MINIMIZED PRODUCTION OF DUST. WEAR NEOPRENE GLOVES AND PROTECTIVE CLOTHING IF DIRECT CONTACT LIKELY; WEAR EYE PROTECTION. AVOID SKIN AND EYE CONTACT. |
| STORAGE NEEDS | IN OPEN AIR OR IN VENTILATED PLACES. AVOID CREATING AIRBORNE DUST. STORE IN DRY PLACES SHELTERED FROM HUMIDITY. STORE IN COOL AND DRY PLACE FOR PRODUCT INTEGRITY. PROTECT CONTAINER FROM PHYSICAL DAMAGE. IN WATERPROOF BAGS OR TANKS. KEEP AWAY FROM ACIDS AND INCOMPATIBLE SUBSTANCES. KEEP OUT OF THE REACH OF CHILDREN. |
| SPECIAL SHIPPING INSTRUCTIONS | SEE SECTION 1 TDG CLASSIFICATION |

SECTION 8: FIRST AID MEASURES

INSTRUCTIONS:

SKIN: WASH AFFECTED AREA WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND RINSE WITH WATER FOR 15 MINUTES.

EYES: TURN UP EYELID AND WASH IMMEDIATELY AND ABUNDANTLY WITH LUKEWARM RUNNING WATER FOR AT LEAST 15 MINUTES. DO NOT TRY TO NEUTRALIZE. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR. BREATHE FRESH AIR DEEPLY. IF NOT BREATHING CLEAR AIRWAY AND START ARTIFICIAL RESPIRATION

INGESTION: DRINK WATER FOLLOWED BY DILUTED VINEGAR (1 PART VINEGAR IN 2 PARTS WATER) OR FRUIT JUICE TO NEUTRALIZE. DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

SECTION 9: PREPARATION INFORMATION

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PREPARED BY KENCRO CHEMICALS LIMITED
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DATE. JUNE 2008

LEGEND:

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| CAS # | CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER |
| IARC | INTERNATIONAL AGENCY FOR RESEARCH ON CANCER |
| LFL | LOWER FLAMMABLE LIMIT |
| N.AP | NOT APPLICABLE |
| N. AV | NOT AVAILABLE |
| T.D.G. | TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS |
| TLV | THRESHOLD LIMIT VALUE |
| UFL | UPPER FLAMMABLE LIMIT |
| WHMIS | WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM |

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