

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION ONE PRODUCT IDENTIFICATION

PRODUCT NAME(S): DRILLING MUD ADDITIVE, SOLID
 CHEMICAL FAMILY: CALCIUM HYDROXIDE
 TRADENAME: LIME, HYDRATED LIME
 SUPPLIER / DISTRIBUTOR: AUSTIN WHITE LIME CO.
 ADDRESS: P.O. BOX 9558, AUSTIN, TX 78786
 FOR FURTHER INFORMATION CALL: (903)526-2318

PREPARED 8-03

Lime

SECTION TWO HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS INGREDIENTS: CALCIUM HYDROXIDE 99% CAS 1305-62-0

SECTION THREE PHYSICAL DATA

BOILING POINT: NOT AVAILABLE
 VAPOR PRESSURE: NOT AVAILABLE
 VAPOR DENSITY: NOT AVAILABLE
 SOLUBILITY IN WATER: APPRECIABLE

SPECIFIC GRAVITY: 2.25
 pH: 11
 EVAPORATION RATE: NOT AVAILABLE
 APPEARANCE: WHITE POWDER, MILD ODOR

SECTION FOUR FIRE AND EXPLOSION HAZARD DATA

FIRE: NOT CONSIDERED A FIRE HAZARD
 EXPLOSION: NOT CONSIDERED AN EXPLOSION HAZARD
 FIRE EXTINGUISHING MEDIA: ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDIN FIRE.
 SPECIAL DATA: IN EVENT OF FIRE, WEAR FULL PROTECTIVE CLOTHING AND APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.
 REACTIVITY: STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. ABSORBS CARBON DIOXIDE FROM AIR TO FORM CALCIUM CARBONATE.
 HAZARDOUS DECOMPOSITION: CAUSTIC FUMES OF CALCIUM OXIDE MAY FORM WHEN HEATED TO DECOMPOSITION TEMPERATURE (1076 DEGREES F.)
 INCOMPATIBILITIES: STRONG REACTIONS WITH MALEIC HYDRIDE, NITROETHANE, AND PHOSPHORUS. AS A STRONGL ALKALINE MATERIAL, IT IS INCOMPLETE WITH ACIDS.
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION FIVE HEALTH HAZARD DATA

INHALATION: EXPOSURE MAY CAUSE IRRITATION TO RESPIRATORY TRACT DEPENDING ON DURATION OF CONTACT.
 INGESTION: GASTRIC IRRITANT. INGESTION MAY CAUSE SEVERE PAIN, VOMITING, DIARRHEA, AND COLLAPSE.
 SKIN: CORROSIVE. MAY CAUSE BURNS AND BLISTERING DEPENDING ON DURATION OF CONTACT.
 EYE CONTACT: CORROS VE. MAY CAUSE SEVERE IRRITATION AND PAIN.
 CHRONIC EXPOSURE: PROLONGED EXPOSURE MAY PRODUCE SEVERE INRRITATION OR DERMATITIS.
 CARCINOGENIC REFERENCES: NOT KNOWN AS CARCINOGEN BY NTP OR IARC

SECTION SIX EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. CONTACT PHYSICIAN.
 INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIENCE PERSON. CONTACT PHYSICIAN.
 SKIN: IN CASE OF CONTACT, WIPE OFF EXCESS MATERIAL FROM SKIN AND FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. CONTACT PHYSICIAN.
 EYES: IN CASE OF CONTACT, FLUSH EYES WITH PLENTY OF WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.

SECTION SEVEN INDUSTRIAL HYGIENE MEASURES

VENTILATION SYSTEM: LOCAL OR GENERAL EXHAUST IS SUGGESTED TO KEEP EXPOSURE BELOW LIMITS. LOCAL EXHAUST IS PREFERRED.
 AIRBORNE EXPOSURE LIMITS: PEL=15 MG/M3, AND ACGIH=5 MG/M3 TOTAL DUST.
 PERSONAL RESPIRATORS: IF LIMITS ARE EXCEEDED, USE NIOSH APPROVED RESPIRATOR.
 SKIN PROTECTION: WEAR IMPERVIOUS CLOTHING AS NEEDED TO LIMIT AND PREVENT CONTACT.
 EYE PROTECTION: USE CHEMICAL SAFETY GLASSES OR GOGGLES AS NEEDED TO PREVENT CONTACT.

SECTION EIGHT INDUSTRIAL HYGIENE MEASURES

ACCIDENTAL RELEASE: VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE CLOTHING. SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL.
 DISPOSAL: IN A SUITABLE WASTE DISPOSAL FACILITY. CLOSE CONTAINERS TIGHTLY.

SECTION NINE ADDITIONAL INFORMATION

NFPA HAZARD RATING:
 FIRE: 0
 TOXICITY: 2

REACTIVITY: 0
 OTHER: 0

0=MINIMAL 1=SLIGHT 2=MODERATE 3=SEVERE 4=EXTREME

SECTION TEN TRANSPORTATION DATA

SHIPPING NAME: OILWELL DRILLING MUD TREATING COMPOUND, SOLID, CLASS 50
 SPECIAL SHIPPING LABELS REQUIRED? NO

D.O.T. REGULATED? NO