

MSDS for: K-MAG (GRANULAR, COMPACTED, PRILLS, STANDARD, FINE)

Material Safety Data Sheet

K MAG GRANULAR, COMPACTED, PRILLS, MINI PRILLS, STANDARD, FINES

Product Health & Safety Data Sheet (Approved by U.S. Department of Labor, 'Essentially similar to Form OSHA 20, Material Safety Data Sheet')

SECTION I PRODUCT IDENTIFICATION

MANUFACTURER: WESTERN AG-MINERALS COMPANY
16800 Greenspoint Park Drive, Suite 250N
Houston, TX 77060

TELEPHONE NO: 713-875-5624

EMERGENCY NO: 713-875-5624

TRADE NAME: K-MAG (Granular, Compacted, Prills, Mini Prills, Standard, Fines)

SYNONYMS: Langbeinite, Potassium Magnesium Sulfate, $K_2SO_4 \cdot 2(Mg SO_4)$

SECTION II HAZARDOUS INGREDIENTS

| MATERIAL OR COMPONENT IN HAZARDOUS CONCENTRATIONS | % | HAZARD DATA |
|---|---|-------------|
| None | | |

SECTION III HEALTH EFFECT INFORMATION

EYE CONTACT: May cause irritation of the eyes

SKIN CONTACT: No known effects

INHALATION: May cause irritation of the mucous membranes of the nose and throat

INGESTION: No known effects

HEALTH DATA: The Permissible Exposure limit (PEL) for nuisance particulates is 15 mg/M3.

SYSTEMIC EFFECTS: Potassium sulfate and magnesium sulfate are considered to be of a low order of toxicity.

SEE DISCLAIMER OF WARRANTY, at the end of MSDS.

SECTION IV EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Wash eyes with water. If large particles are embedded in the eye, seek medical attention.

SKIN CONTACT: None required

INHALATION: Remove to fresh air

INGESTION: None required

SECTION V PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Safety glasses or goggles may be worn to protect eyes from dust

SKIN PROTECTION: None required

RESPIRATORY PROTECTION: If dust concentrations exceed the PEL a half-mask dust respirator should be worn. Disposable type dust mask could be used if the exposure is of a short duration or if dust concentration is relatively low.

NOTE: Respirators must be NIOSH approved.

MSDS for: K-MAR (GRANULAR, COMPACTED, PRILLS, STANDARD, FINE)

VENTILATION: Adequate ventilation to reduce dust concentrations to below the PEL must be provided.

OTHER: Wash hands and face with soap and water before eating or smoking.

SECTION VI FIRE PROTECTION INFORMATION

FLASH POINT (TEST METHOD): NA
AUTO IGNITION TEMPERATURE (DEGREES F.): NA
FLAMMABLE LIMITS IN AIR % VOL: LOWER: NA UPPER: NA
EXTINGUISHING MEDIA: NA
SPECIAL FIRE FIGHTING PROCEDURE: None indicated
UNUSUAL FIRE AND EXPLOSIVE CONDITIONS: None
HAZARDOUS COMBUSTION PRODUCTS: None

SECTION VII REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): STABLE
CONDITIONS TO AVOID: NA
INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Stable
CONDITIONS TO AVOID: NA

SECTION VIII ENVIRONMENTAL PRECAUTIONS

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dust may be vacuumed or swept up.
WASTE DISPOSAL METHOD: Disposal methods must conform to local, state and federal regulations. Large quantities may be disposed of at approved sanitary landfills.

SECTION IX SPECIAL PRECAUTIONS

HANDLING AND STORAGE REQUIREMENTS: None
PRECAUTIONARY STATEMENTS: None

SECTION X PHYSICAL PROPERTIES

BOILING POINT (DEGREES C): Unknown
MELTING POINT (DEGREES C): 927 degrees C
SOLUBILITY: Soluble in water
VAPOR PRESSURE (mmHg, TEMP): NA
SPECIFIC GRAVITY (H2O=1): 2.8
APPEARANCE, COLOR, ODOR, ETC.: Tetrahedral Crystals, pink to gray color
MOLECULAR WEIGHT: 415
PERCENT VOLATILE BY VOLUME (5): NA
VAPOR DENSITY (AIR=1): NA
EVAPORATION RATE (=1): NA
OTHER:

APPROVED: G.R. Hagstrom

DATE: August, 1991

M300 for: K-MAG (GRANULAR, COMPACTED, PELLETS, STANDARD, FINE)

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REQUIRED UNDER USDL SAFETY AND HEALTH REGULATIONS FOR SHIP REPAIRING, SHIPBUILDING AND SHIP BREAKING (29 CFR 1915, 1916, 1917)