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MATERIAL SAFETY DATA SHEET:
MAGNESIUM CHLORIDE, HEXAHYDRATE
CATALOG NUMBER: AB01310

SECTION I - PRODUCT INFORMATION

PRODUCT: MAGNESIUM CHLORIDE, HEXAHYDRATE
GRADE: ULTRA PURE/ACS/FCC/USP
NIOSH (RTECS) NUMBER: OM2975000
CAS NUMBER: 7791-18-6

SECTION II - PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: WHITE CRYSTALLINE
FORMULA: $MgCl_2 \cdot 6H_2O$
FORMULA WEIGHT: 203.31
MELTING POINT: 118°C
SPECIFIC GRAVITY: 1.56
SOLUBILITY IN WATER: COMPLETE

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NON-COMBUSTIBLE
EXTINGUISHING MEDIA: USE MEDIA SUITABLE FOR SURROUNDING MATERIAL.
SPECIAL FIRE FIGHTING PROC: WEAR SELF-CONTAINED BREATHING APPARATUS.

SECTION IV - REACTIVITY DATA

STABILITY: YES
COND TO AVOID (STABILITY): EXTREME HEAT
HAZARDOUS DECOMP PRODUCTS: MAGNESIUM OXYCHLORIDE, TOXIC FUMES
HAZARDOUS POLY OCCUR: NO

SECTION V - HEALTH HAZARD DATA

ROUTE OF ENTRY - INHALATION: YES
ROUTE OF ENTRY - SKIN: NO
ROUTE OF ENTRY - INGESTION: YES
HEALTH HAZ ACUTE AND CHRONIC: IRRITATING TO SKIN, EYES OR MUCOUS MEMBRANES.
INGESTION: GASTROINTESTINAL TRACT IRRITATION.
CARCINOGENICITY - NTP: NO
CARCINOGENICITY - IARC: NO
CARCINOGENICITY - OSHA: NO
EXPLANATION CARCINOGENICITY: NONE
SIGNS/SYMPTOMS OF OVEREXP: INGESTION: NAUSEA, VOMITING, & DIARRHEA.
EMERGENCY/FIRST AID PROC: SKIN: WASH W/SOAP & WATER. EYES: FLUSH W/ WATER.
INHALATION: REMOVE TO FRESH AIR. INGESTION: IF CONSCIOUS, INDUCE VOMITING.
OBTAIN MEDICAL ATTENTION IN ALL CASES.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS IF MATL RELEASED/SPILL: TAKE UP & CONTAINERIZE FOR PROPER DISPOSAL.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

PRECAUTIONS-HANDLING/STORING: KEEP CONTAINER CLOSED & STORE IN COOL, DRY AREA. OTHER PRECAUTIONS: DON'T BREATHE DUST. DON'T GET IN EYES, ON SKIN OR ON CLOTHING. DON'T TAKE INTERNALLY.

SECTION VII - CONTROL MEASURES

RESPIRATORY PROTECTION: REQUIRED

VENTILATION: HANDLE/TRANSFER IN APPROVED FUME HOOD OR ADEQUATE VENTILATION

PROTECTIVE GLOVES: NEOPRENE, POLYVINYL CHLORIDE OR EQUIV.

EYE PROTECTION: SAFETY GLASSES W/SIDE SHIELDS

OTHER PROTECTIVE EQUIPMENT: EYE WASH & SAFETY EQUIPMENT

WORK HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING.

SECTION VIII - LABEL DATA

COMMON NAME: MAGNESIUM CHLORIDE HEXAHYDRATE

CHRONIC HAZARD: NO

SIGNAL WORD: WARNING!

ACUTE HEALTH HAZARD-MODERATE: X

CONTACT HAZARD-SLIGHT: X

FIRE HAZARD-NONE: X

REACTIVITY HAZARD-NONE: X

SPECIAL HAZARD PRECAUTIONS: IRRITATING TO SKIN, EYES OR MUCOUS MEMBRANES.

INGESTION: GASTROINTESTINAL TRACT IRRITATION. TARGET ORGANS: SKIN, EYES,

MUCOUS MEMBRANES & DIGESTIVE TRACT. EYES/SKIN: IRRITATION. INGESTION:

IRRITATION

GASTROINTESTINAL DISTURBANCES. INHALATION: IRRITATION, NARCOSIS.

TARGET ORGANS: EYES/SKIN, DIGESTIVE TRA

PROTECT EYE: Y

PROTECT SKIN: Y

PROTECT RESPIRATORY: Y

REVISION DATE 09/15/05