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DATE 12/22/95  
 CUST#: 2-097-94816  
 PO#: Q H 4743

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

CATALOG #: M2393  
 NAME: MAGNESIUM CHLORIDE HEXAHYDRATE  
 CELL CULTURE TESTED

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 7791-18-6  
 MF: CL2MG1

SYNONYMS

CHLORURE DE MAGNESIUM HYDRATE (FRENCH) \* CMH \* MAGNESIUM DICHLORIDE  
 HEXAHYDRATE \*

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

IRRITANT  
 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
 TARGET ORGAN(S):  
 CENTRAL NERVOUS SYSTEM  
 KIDNEYS  
 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
 WATER AND SEEK MEDICAL ADVICE.  
 WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF  
 WATER FOR AT LEAST 15 MINUTES.  
 IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS  
 AMOUNTS OF WATER.  
 IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
 RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
 IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
 CALL A PHYSICIAN.  
 WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.  
 USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
 PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLCSIONS HAZARDS

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M A T E R I A L S A F E T Y D A T A S H E E T PAGE 2

CATALOG #: M2393
NAME: MAGNESIUM CHLORIDE HEXAHYDRATE
CELL CULTURE TESTED

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
WHITE CRYSTALLINE FLAKES

PHYSICAL PROPERTIES
SPECIFIC GRAVITY: 1.569

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
HYDROGEN CHLORIDE GAS

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES EYE AND SKIN IRRITATION.

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M A T E R I A L S A F E T Y D A T A S H E E T PAGE 3

CATALOG #: M2393  
 NAME: MAGNESIUM CHLORIDE HEXAHYDRATE  
 CELL CULTURE TESTED

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
 RESPIRATORY TRACT.  
 CAN CAUSE CNS DEPRESSION.  
 EXPOSURE CAN CAUSE:  
 STOMACH PAINS, VOMITING, DIARRHEA.  
 TARGET ORGAN(S):  
 CENTRAL NERVOUS SYSTEM  
 KIDNEYS

RTECS #: DM2975000  
 MAGNESIUM CHLORIDE, HEXAHYDRATE

TOXICITY DATA

ORL-RAT LD50: 8100 MG/KG	AIHAAP 30,470,69
ORL-MUS LD50: 7600 MG/KG	THERAP 31,471,76
IPR-MUS LD50: 775 MG/KG	THERAP 31,471,76

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)  
 BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
 BEHAVIORAL (EXCITEMENT)  
 BEHAVIORAL (COMA)  
 LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
 (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
 COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -  
 DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -  
 CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF  
 THIS MATERIAL.  
 OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -  
 CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

EUROPEAN INFORMATION  
 CAUTION: SUBSTANCE NOT YET FULLY TESTED.  
 IRRITANT  
 R 36/37/38  
 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
 S 26  
 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
 WATER AND SEEK MEDICAL ADVICE.

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CELL CULTURE TESTED

S 36  
WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAX  
NOES 1983: HZD X5658; NIS 14; TNF 1678; NOS 32; TNE 29612; TFE 16245

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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