Valid 05/2002 - 07/2002

Aldrich Chemical Co., Inc. 1001 West St. Paul Milwaukee, WI 53233 USA Tel: 414-273-3850

## MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL IDENTIFICATION
CATALOG #: 226548 NAME: SILVER PERCHLORATE HYDRATE, 99%
NAME: SILVER PERCHLORATE HYDRATE, 99%
SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS
CAS #:NONE
MF: AGCLO4
SECTION 3 HAZARDS IDENTIFICATION
LABEL PRECAUTIONARY STATEMENTS
OXIDIZING
CORROSIVE
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
CAUSES BURNS.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
HYGROSCOPIC
SECTION 4 FIRST-AID MEASURES
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
SECTION 5 FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA
WATER SPRAY.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
SECTION 6 ACCIDENTAL RELEASE MEASURES
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER
AND HOLD FOR WASTE DISPOSAL.
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
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
AVOID BREATHING DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.

7/15/02

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DISCARD CONTAMINATED CLOTHING AND SHOES.
   CORROSIVE.
   KEEP TIGHTLY CLOSED.
   KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
   REFRIGERATE.
SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
  APPEARANCE AND ODOR
   MOIST WHITE CRYSTALS
INCOMPATIBILITIES
    STRONG REDUCING AGENTS
    ALCOHOLS
SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - - -
  ACUTE EFFECTS
    HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
    MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
    AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
    INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE
    LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
    SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
    WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
    VOMITING.
    MAY CAUSE ARGYRIA (A SLATE-GRAY OR BLUISH DISCOLORATION OF THE SKIN
    AND DEEP TISSUES DUE TO THE DEPOSIT OF INSOLUBLE ALBUMINATE OF
    STIWER).
    TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
    TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
SECTION 12. - - - - - - ECOLOGICAL INFORMATION - - - - - - -
    DATA NOT YET AVAILABLE.
SECTION 13. - - - - - - DISPOSAL CONSIDERATIONS - - - -
    CATALYSTS AND EXPENSIVE METALS SHOULD BE RECOVERED FOR REUSE
    OR RECYCLING.
    OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
SECTION 14. - - - - - - TRANSPORT INFORMATION - - - - - -
    CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
 SECTION 15. - - - - - - REGULATORY INFORMATION - - - - - - -
  EUROPEAN INFORMATION
    CAUTION: SUBSTANCE NOT YET FULLY TESTED.
    OXIDIZING
    CORROSIVE
    CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
    R 34
    CAUSES BURNS.
     S 26
     IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
     WATER AND SEEK MEDICAL ADVICE.
     S 36/37/39
     WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
     PROTECTION.
     S 45
     IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
     IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
   TLV AND SOURCE
     FOR SOLUBLE SILVER COMPOUNDS AS SILVER:
     ACGIH TLV-TWA: 0.01 MG/M3.
   U.S. INFORMATION
     THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.
 SECTION 16. - - - - - - - OTHER INFORMATION- - - - - - - -
     THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
     BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA, ALDRICH,
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