ATTN: SAFETY DIRECTOR  
UNIV. OF WISC.-WHITESTAIR  
PURCHASING OFFICE  
800 W MAIN ST  
WHITEWATER WI 53190-1705

EMERGENCY PHONE 1-314-771-5765  
DATE: 09/27/94  
CUST#: 2097-94816  
PO#: UNE-51497

MATERIAL SAFETY DATA SHEET  
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SECTION 1. --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- ---
PRODUCT #: A2754  
NAME: ADENOSINE 5'-DIPHOSPHATE SODIUM  
FROM BACTERIAL SOURCENCE

SECTION 2. --- --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS--- --- --- ---
CAS #: 20392-34-9  
MF: C10H15N5O10P2  
ADDITIONAL INFORMATION  
CONTAINS ETHYL ALCOHOL, CHEMICAL ABSTRACTS REGISTRY NUMBER 64-17-5.  
CONTAINS METHYL ALCOHOL, CHEMICAL ABSTRACTS REGISTRY NUMBER 67-56-1.

SECTION 3. --- --- --- --- HAZARDS IDENTIFICATION--- --- --- ---
LABEL PRECAUTIONARY STATEMENTS  
TOXIC  
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
TARGET ORGAN(S):  
EYES, NERVES  
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING.  
DO NOT BREATHE DUST.

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--- --- --- ---
CONTINUED ON NEXT PAGE
PRODUCT #: A2754  
NAME: ADENOSINE 5'-DIPHOSPHATE SODIUM FROM BACTERIAL SOURCE

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. --- ACCIDENTAL RELEASE MEASURES

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, 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

WEAR APPROPRIATE NIOSH/OSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.

TOXIC.
IRRITANT.
KEEP TIGHTLY CLOSED.
REFRIGERATE.

SECTION 9. --- PHYSICAL AND CHEMICAL PROPERTIES

CONTINUED ON NEXT PAGE
PRODUCT #: A2754
MF: C10H15N5O10P2
NAME: ADENOSINE 5'-DIPHOSPHATE SODIUM
FROM BACTERIAL SOURCE

APPEARANCE AND ODOR
WHITE POWDER
SOLUBILITY: WATER-SOLUBLE

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
PHOSPHORUS OXIDES

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
EXPOSURE MAY CAUSE:
GASTROINTESTINAL DISTURBANCES
NARCOTIC EFFECT
DAMAGE TO THE EYES
DAMAGE TO THE LIVER
DAMAGE TO THE HEART
DAMAGE TO THE KIDNEYS
MAY CAUSE CONVULSIONS.
TARGET ORGAN(S):
NERVES
LIVER
EYES
KIDNEYS
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.

CONTINUED ON NEXT PAGE
**PRODUCT #:** A2754  
**NAME:** ADENOSINE 5’-DIPHOSPHATE SODIUM  
**FROM:** BACTERIAL SOURCE

**SECTION 13.**  
**DISPOSAL CONSIDERATIONS**

- **DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.**
- **OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.**

**SECTION 14.**  
**TRANSPORT INFORMATION**

**SECTION 15.**  
**REGULATORY INFORMATION**

**TLV AND SOURCE**

- **ETHYL ALCOHOL (ETHANOL):**
- ACGIH TLV-TWA: 1000 ppm (1000 mg/m³).
- OSHA PERmissible TWA: 1000 ppm (1000 mg/m³).

- **METHYL ALCOHOL (ISOPROPANOL):**
- ACGIH TLV-TWA: 200 ppm (200 mg/m³); STEL: 250 ppm (310 mg/m³).
- OSHA PERmissible TWA: 200 ppm (200 mg/m³); STEL: 250 ppm (310 mg/m³).

**MAY CONTAIN UP TO:**

- 4% METHANOL (CAS #: 67-56-1)

**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 SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.**

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