ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN WHITewater
P O BOX 296
WHITewater WI 53190-0296

DATE: 09/01/95
CUST#: 523216
P0# : QH1341

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

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

PRODUCT #: A2620-9
NAME: ADENOSINE 5'-TRIPHOSPHATE, DISODIUM SALT
HYDRATE, 99%, CRYSTALLINE

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

MF: C10H16N5O13P3
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
MATERIAL SAFETY DATA SHEET

PRODUCT #: A026209
NAME: ADENOSINE 5'-TRIPHOSPHATE DISODIUM SALT HYDRATE, 99%, CRYSTALLINE

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

SPECIAL FIRE-FIGHTING PROCEEDURES:
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/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
MECHANICAL EXHAUST REQUIRED.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATH DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
TOXIC.
IRRITANT.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR:

CONTINUED ON NEXT PAGE
PRODUCT #: A026209
NAME: ADENOSINE 5'-TRIPHOSPHATE, DISODIUM SALT HYDRATE, 99%, CRYSTALLINE

WHITE POWDER
MELTING POINT: 176 C (DEC)

SECTION 10. --- STABILITY AND REACTIVITY ---

INCOMPATIBILITIES
STRONG OXIDISING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
THERMAL DECOMPOSITION MAY PRODUCE TOXIC FUMES OF PHOSPHORUS OXIDES AND/OR PHOSPHINE.

SECTION 11. --- TOXICOLOGICAL INFORMATION ---

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO HUMANS MEMBRANES AND UPPER RESPIRATORY TRACT.
EXPOSURE CAN CAUSE:
CNS DEPRESSION
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
EYES
LIVER
KIDNEYS
THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. --- ECOLOGICAL INFORMATION ---

CONTINUED ON NEXT PAGE
PRODUCT #: A026209
NAME: ADENOSINE 5'-TRIPHOSPHATE DISODIUM SALTS
HYDRATE, 99%, CRISTALLINE

DATA NOT YET AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS
Disolve 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
Contact Aldrich Chemical Company for transport information.

SECTION 15. REGULATORY INFORMATION

TLV AND SOURCE
For ethyl alcohol (ethanol):
ACGIH TLV-TWA: 1000 ppm (1900 mg/m³).
OSHA PEL: 8 h TWA 1000 ppm (1900 mg/m³).
For methyl alcohol - skin:
ACGIH TLV-TWA: 200 ppm (360 mg/m³); STEL: 250 ppm (310 mg/m³).
OSHA PEL: 8 h TWA 200 ppm (360 mg/m³); STEL: 250 ppm (360 mg/m³).
0.5% methanol 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. Aldrich 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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Continued on next page