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

DATE: 09/01/95
CUST#: 523216
P.O. #: QH1341

MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- ---
PRODUCT #: 13535-6
NAME: ACETYLCHOLINE CHLORIDE, 98%

SECTION 2. --- --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS--- --- --- ---
CAS #: 60-31-1
MF: C7H11NO2
SYNONYMS:
ACETYLCHOLINE
ACETYLCHOLINE CHLORIDE
2-ACETOXYETHYLTRIMETHYLAMMONIUM CHLORIDE
ACETYLCHOLINE CHLORIDE
D-ACETYLCOLINE CHLORIDE
ACETYLCHOLINE HYDROCHLORIDE
ACETYLCOLINUM CHLORIDE
2-(ACETOXYETHYL)TRIMETHYLAMMONIUM CHLORIDE
ACETYLCOLINE, 2-(ACETOXYETHYL)TRIMETHYLAMMONIUM CHLORIDE ACETATE
ARTEROCOLINE CHLORIDE
CHLORIDE ACETATE
ETHANAMINE, 2-(ACETOXYETHYL)TRIMETHYLAMMONIUM CHLORIDE ACETATE
MICAHOL
OVISET
TL 1505

SECTION 3. --- --- --- --- HAZARDS IDENTIFICATION--- --- --- ---
LABEL PRECAUTIONARY STATEMENTS:
IRRITANT
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
LACHRYMAT.
TARGET ORGAN(S):
VASCULAR SYSTEM HEART
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.
VERY HYDROSCOPIC
KEEP TIGHTLY CLOSED.
STORE UNDER NITROGEN.

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 INHALED, MOVE 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.

CONTINUED ON NEXT PAGE
SECTION 5. - - - - - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - - - - - - -

EXTINGUISHING MEDIA
CARBON DIOXIDE.
DRY CHEMICAL POWDER.
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
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - - - - - - - - ACCIDENTAL RELEASE MEASURES - - - - - - - - - - - - -

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SLEEP 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.
SAFETY SHOES 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.

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MATERIAL SAFETY DATA SHEET

PRODUCT #: 135356
NAME: ACETYLCHOLINE CHLORIDE, 93%
MF: C7H16ClNO2

WASH THOROUGHLY AFTER HANDLING.
LACHRYMATORY.
IRRITANT.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - - 

APPEARANCE AND ODOR:
WHITE CRYSTALLINE POWDER.
MELTING POINT: 147 C TO 149 C

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

INCOMPATIBILITIES:
STRONG OXIDIZING AGENTS.
PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE.
NITROGEN OXIDES, HYDROGEN CHLORIDE GAS.

SECTION 11. - - - - - - TOXICOLOGICAL INFORMATION - - - - - - 

ACUTE EFFECTS:
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, HEALED TING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

TARGET ORGAN(S):
VASCULAR SYSTEM.
HEART.
CENTRAL NERVOUS SYSTEM.
SMOOTH MUSCLE.
SKELETAL MUSCLE.

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PRODUCT #: 135356
NAME: ACETYLCHOLINE CHLORIDE, 98%

MF: C7H16ClN02

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TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (SPASTIC PARALYSIS WITH/WITHOUT SENSORY CH
BEHAVIORAL (ALTERED SLEEP TIME)
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (STIFFNESS)
CARDIAC (OTHER CHANGES)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

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

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

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 -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - REGULATORY INFORMATION -

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REVIEWS, STANDARDS, AND REGULATIONS
NOES 1983: H2O X3203; NIS 2; TNF 121; NOS 5; TNE 2698; TFE 1846
EPA TSCA SECTION 8(b) CHEMICAL INVENTORY

SECTION 16 - OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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