

## SIGMA-AL

## SIGMA CHEMICAL COMPANY POST OFFICE BOX 14508 SĂĬŃT LOUĬS, MÎSSOŬŘĬ 63178, USA

ATTN: SAFETY DIRECTOR UNIVERSITY OF WISCONSIN

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E 07/23/96 CUST#: 2-097-94804 PO#: UNG-71236

SHEET PAGE SAFETY DATA MATERIAL - - CHEMICAL IDENTIFICATION-SECTION 1. A6625 ACETYLCHOLINE CHLORIDE CATALOG #: NAME: SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - -CAS #: 60-31-1 MF: C7H16CLNO2 EC NO: 200-468-8 SYNONYMS

ACECHOLIN \* ACECOLINE \* 2-ACETOXYETHYLTRIMETHYLAMMONIUM CHLORIDE \*
ACETYLCHOLINE CHLORIDE \* O-ACETYLCHOLINE CHLORIDE \* ACETYLCHOLINE
HYDROCHLORIDE \* ACETYLCHOLINIUM CHLORIDE \* 2-(ACETYLOXY)-N,N,NTRIMETHYLETHANAMINIUM CHLORIDE \* ACH CHLORIDE \* AMMONIUM, (2HYDROXYETHYL)TRIMETHYL-, CHLORIDE, ACETATE \* ARTEROCOLINE \* CHOLINE,
CHLORIDE ACETATE \* ETHANAMINIUM, 2-(ACETYLOXY)-N,N,N-TRIMETHYL-,
CHLORIDE \* (2-HYDROXYETHYL)TRIMETHYLAMMONIUM CHLORIDE ACETATE \*
MIOCHOL \* OVISOT \* TL 1505 \* SECTION 3. - - - - - - - HAZARDS IDENTIFICATION -LABEL PRECAUTIONARY STATEMENTS ĪRRITĀNT IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. LACHRYMATOR.
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. 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, 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 CARBON DIOXIDE. DRY CHEMICAL POWDER.

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SHEET PAGE MATERIAL SAFETY DATA A6625 CATALOG #: ACETYLCHOLINE CHLORIDE NAME: 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. -EVACUATE AREA.
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 - - -WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHGLOVES, 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.
LACHRYMATOR.
IDDITANT CHEMICAL-RESISTANT IRRITANT. STORE IN A COOL DRY PLACE. SECTION 9. - - - -- PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE AND ODOR SOLID. PHYSICAL PROPERTIES MELTING POINT: SOLUBILITY: 147 C TO 149 C WĀTĒR -SOLUBLE IER -INSOLUBLE ETHANOL -SOLUBLE - -STABILITY AND REACTIVITY -SECTION 10. - - -INCOMPATIBILITIES STRONG OXIDIZING AGENTS PROTECT FROM MOISTURE.

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SHEET MATERIAL SAFETY DATA

CATALOG #: NAME:

A6625 ACETYLCHOLINE CHLORIDE

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

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

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, SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND WOMITING.

VOMITING. TARGET ORGAN(S): VASCULAR SYSTEM

HEART CENTRAL NERVOUS SYSTEM SMOOTH MUSCLE SKELETAL MUSCLE

ADRENAL MEDULLA

RTECS #: FZ9800000 (ESTER), CHLORIDE

TOXICITY DATA
ORL-RAT LD50:2500 MG/KG
SCU-RAT LD50:250 MG/KG
IVN-RAT LD50:22 MG/KG
ORL-MUS LD50:3 GM/KG
IPR-MUS LD50:15300 UG/KG
SCU-MUS LD50:170 MG/KG
IVN-MUS LD50:10 MG/KG
IVN-GPG LD50:7700 UG/KG

58,337,36 588,3337,36 558,3337,326,57 20(43),326,57 119,461,67 JPETAB FATOAO **JPETAB JPETAB** AIPTAK

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

- - - ECOLOGICAL INFORMATION -SECTION 12. - - - - -

DATA NOT YET AVAILABLE.

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DATA SHEET SAFETY MATERIAL

PAGE

CATALOG #: NAME:

A6625 ACETYLCHOLINE CHLORIDE

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.

- - TRANSPORT INFORMATION - -SECTION 14.

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

- - REGULATORY INFORMATION -

EUROPEAN INFORMATION IRRITANT R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

\$ 26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. 

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK NOES 1983: HZD X3203; NIS 2; TNF 121; NOS 5; TNE 2698; TFE 1846 EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

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

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