MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - -
CATALOG #: A0382
NAME: ATROPINE METHYL NITRATE

SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -
CAS #: 52-88-0
MF: C18H27N3O3
EC NO: 200-156-1
SYNONYMS
ATROPINE METHNITRATE * ATROPINE METHYL NITRATE * EKOMINE * EUMIDRINA
* EYMYDRIN * EUMYDRINE * EUROPEN * HARVATRATE * 3-ALPHA-HYDROXY-8-
METHYL-1-ALPHA-H,5-ALPHA-H-TROPANIUM BROMIDE (+,-)-TROPATE * DL-
HYOSCYAMINE METHYLNITRATE * DL-HYOSYAMINE METHYLNITRATE * METANITE *
METHYL ATROPINE NITRATE * N-METHYLATROPINE NITRATE * N-
METHYLATROPINIUM NITRATE * 8-METHYLATROPINIUM NITRATE * METROPINE *
PYLSTROPIN * 1-ALPHA-H,5-ALPHA-H-TROPANIUM, 3-ALPHA-HYDROXY-8-METHYL-
, NITRATE, (+)-TROPATE (ESTER) *

SECTION 3. - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - -
LABEL PRECAUTIONARY STATEMENTS
HARMFUL
HARMFUL BY INHALATION AND IF SWALLOWED.
TARGET ORGAN(S):
NERVES
WEAR SUITABLE PROTECTIVE CLOTHING.
DO NOT BREATHE DUST.

SECTION 4. - - - - - - - - FIRST-AID MEASURES- - - - - - - -
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - -
EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
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.
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.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.
SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
APPEARANCE AND ODOR
SOLID.
PHYSICAL PROPERTIES
MELTING POINT: 163°C
SOLUBILITY:
WATER -SOLUBLE
SECTION 10. - - - - - - - STABILITY AND REACTIVITY - - - - - -
STABILITY
STABLE.
CONDITIONS TO AVOID
PROTECT FROM LIGHT.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.
SECTION 11. - - - - - - - TOXICOLOGICAL INFORMATION - - - - - -
ACUTE EFFECTS
HARMFUL IF INHALED OR SWALLOWED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
EXPOSURE CAN CAUSE:
BLURRED VISION, SUPPRESSED SALIVATION, VASODILATION,
HYPERPYREXIA, EXCITEMENT, AGITATION, AND DELIRIUM.
MAY CAUSE NERVOUS SYSTEM DISTURBANCES.
TARGET ORGAN(S):
NERVES
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
ADDITIONAL INFORMATION
BY ANALOGY TO ADIPHENINE AND ATROPINE.
EXPOSURE MAY CAUSE DRYNESS OF THE MOUTH WITH DIFFICULTY IN SWALLOWING,
THIRST, DILATION OF THE PUPILS WITH LOSS OF ACCOMMODATION AND
PHOTOPHOBIA, INCREASED INTRAOCULAR PRESSURES, FLUSHING AND DRYNESS OF
THE SKIN, BRADYCARDIA FOLLOWED BY TACHYCARDIA, WITH PALPITATIONS AND
ARRHYTHMIAS, A DESIRE TO URINATE WITH THE INABILITY TO DO SO, AS WELL
AS REDUCTION IN THE TONE AND MOTILITY OF THE GASTRO-INTESTINAL TRACT
LEADING TO CONSTIPATION. OCCASIONALLY VOMITING, GIDDINESS, AND
STAGGERING MAY OCCUR.
RTECS #: CK2800000
ATROPINUM, 8-METHYL-, NITRATE
TOXICITY DATA
ORL-RAT LD50:1902 MG/KG
ORL-MUS LD50:1320 MG/KG
IPR-MUS LD50:9 MG/KG
IVN-MUS LD50:9300 MG/KG
SCU-GPG LD50:95 MG/KG
TXAPA9 1,42,1959
PSEBAA 120,511,1965
ATXKA8 29,39,1972
JPETAB 110,282,1954
AIPTAK 137,375,1962
TARGET ORGAN DATA
SENSE ORGANS AND SPECIAL SENSES (MYDRIASIS)
AUTONOMIC NERVOUS SYSTEM (PARASYMPATHOLYTIC)
EFFECTS ON FERTILITY (MATING PERFORMANCE)
EFFECTS ON FERTILITY (OTHER MEASURES OF FERTILITY)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.
SECTION 12. - - - - - - ECOLOGICAL 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 SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
SECTION 15. - - - - - - REGULATORY INFORMATION - - - - - - -
EUROPEAN INFORMATION
HARMFUL
R 26/28
VERY TOXIC BY INHALATION AND IF SWALLOWED.
S 25
AVOID CONTACT WITH EYES.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
REVIEWS, STANDARDS, AND REGULATIONS
OEIL=MAK
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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