

MATERIAL SAFETY DATA SHEET

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

CODE: E480
NAME: PENICILLIN
CAS#: 69-57-8

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

MF: C16H18N2O4S
EC NO: 200-710-2

SYNONYMS

AMERICAN PENICILLIN * BENZYL PENICILLINIC ACID SODIUM SALT *
BENZYL PENICILLIN SODIUM * BENZYL PENICILLIN SODIUM SALT * CRYSTAPEN *
MYCOFARM * NOVOCILLIN * PEN-A-BRASIVE * PENICILLIN-G, MONOSODIUM SALT
* PENICILLIN G, SODIUM * PENILARYN * SODIUM BENZYL PENICILLIN * SODIUM
BENZYL PENICILLIN G * SODIUM BENZYL PENICILLINATE * SODIUM PENICILLIN G
* SODIUM PENICILLIN II * VETICILLIN *

SECTION 3. ----- HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS

IRRITANT
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
SENSITIZER
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
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 -----

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.
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.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA
WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
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-----

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, BOOTS AND HEAVY 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.

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

APPEARANCE
SOLID.
PHYSICAL PROPERTIES
SOLUBILITY:
WATER -SOLUBLE
POTENCY:
1,500 to 1,750 U/mg

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

STABILITY
STABLE.
INCOMPATIBILITIES
ACIDS
HEAVY METAL SALTS
OXIDIZING AGENTS
GLYCEROL
ALCOHOL
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
SULFUR OXIDES
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

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

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN

SENSITIVE INDIVIDUALS.
 EXPOSURE CAN CAUSE:
 DERMATITIS
 GASTROINTESTINAL DISTURBANCES
 RTECS #: XH9800000
 4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID,
 3,3-DIMETHYL-7-OXO-6-(2-PHENYL
 ACETAMIDO)-, MONOSODIUM SALT

TOXICITY DATA

ORL-RAT LD50:6916 MG/KG	AMPMAR 39,259,1978
IVN-RAT LD50:3020 MG/KG	ARZNAD 9,31,1959
PAR-RAT LD50:2900 UG/KG	AACHAX -,863,1965
ORL-MUS LD50:>4 GM/KG	ABANAE
3,540,1955/1956	
IPR-MUS LD50:3314 MG/KG	ABANAE
3,540,1955/1956	
SCU-MUS LD50:4750 MG/KG	NYKZAU 55,23,1959
IVN-MUS LD50:1500 MG/KG	ARZNAD 9,31,1959
IMS-MUS LD50:2800 MG/KG	ARZNAD 9,31,1959
ICE-MUS LD50:3800 UG/KG	NYKZAU 55,23,1959

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
 BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)
 LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
 GASTROINTESTINAL (OTHER CHANGES)
 BLOOD (LYMPHOMA INCLUDING HODGKIN'S DISEASE)
 EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
 EFFECTS ON NEWBORN (GROWTH STATISTICS)
 NUTRITIONAL AND GROSS METABOLIC (OTHER CHANGES)
 TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
 TUMORIGENIC (TUMORS AT SITE OF APPLICATION)
 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 -----

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

NOT REGULATED.

SECTION 15. ----- REGULATORY INFORMATION -----

EUROPEAN INFORMATION

R36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN

R 42/43

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

S: 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOES 1983: HZD X4380; NIS 1; TNF 137; NOS 5; TNE 7315; TFE 5985
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: D MELANOGASTER SEX-LINKED
LETHAL

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

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