



chemists helping chemists in research & industry

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DATE: 03/10/93
CUST#: 523216
PD#: QE3166

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

IDENTIFICATION

PRODUCT #: 25235-2
CAS #: 6381-92-6 NAME: ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM
MF: C10H16N2O8 SALT DIHYDRATE, 99+%, A.C.S. REAGENT

SYNONYMS

CHELADRATE * CHELAPLEX III * CHELATON III * COMPLEXON III * D.E.D.T.A.
DISODIQUE (FRENCH) * DINATRIUM ETHYLENEDIAMINETETRAACETAT (CZECH) *
DISODIUM DIACID ETHYLENEDIAMINETETRAACETATE * DISODIUM DIHYDROGEN
ETHYLENEDIAMINETETRAACETATE * DISODIUM DIHYDROGEN(ETHYLENEDINITRIL)
TETRAACETATE * DISODIUM EDATHAMIL * DISODIUM EDETATE * DISODIUM EDTA *
DISODIUM ETHYLENEDIAMINETETRAACETATE * DISODIUM
ETHYLENEDIAMINETETRAACETIC ACID * DISODIUM (ETHYLENEDINITRIL)
TETRAACETATE * DISODIUM (ETHYLENEDINITRIL)TETRAACETIC ACID *
DISODIUM SALT OF EDTA * DISODIUM SEQUESTRENE * DISODIUM TETRACEMATE *
DISODIUM VERSENATE * DISODIUM VERSENE * EDATHAMIL DISODIUM * EDETATE
DISODIUM * EDETIC ACID DISODIUM SALT * EDTA DISODIUM * EDTA, DISODIUM
SALT * ENDRATE DISODIUM * N,N'-1,2-ETHANEDIYLBIS(N-(CARBOXYMETHYL)
GLYCINE) DISODIUM SALT * ETHYLENEBIS(IMINODIACETIC ACID) DISODIUM
SALT * ETHYLENEDIAMINETETRAACETATE, DISODIUM SALT *
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT * (ETHYLENEDINITRIL)-
TETRAACETIC ACID DISODIUM SALT * F 1 * F 1 (COMPLEXON) * GLYCINE, N,
N'-1,2-ETHANEDIYLBIS(N-(CARBOXYMETHYL)-, DISODIUM SALT (9CI) *
KIRESU TO B * KOMPLEXON III * METAQUEST B * PERMA KLEER 50 CRYSTALS
DISODIUM SALT * PERMA KLEER DI CRYSTALS * SELEKTON B 2 * SEQUESTRENE
DISODIUM 2 * SODIUM VERSENATE * TETRACEMATE DISODIUM * TITRIPLEX III *
TRILON B * TRILON BD * TRIPLEX III * VERSENE DISODIUM SALT * VERSENE
DISODIUM 2 *

TOXICITY HAZARDS

RTECS #: AH4375000
ACETIC ACID, (ETHYLENEDINITRIL)TETRA-, DISODIUM SALT

TOXICITY DATA

ORL-RAT LD50:2 GM/KG
SCU-RAT LD50:3735 MG/KG
ORL-MUS LD50:2050 MG/KG
IPR-MUS LD50:260 MG/KG
IVN-MUS LD50:56 MG/KG
ORL-RBT LD50:2300 MG/KG
IVN-RBT LD50:47 MG/KG
FEPRA7 27,465,68
SRTCAC 36(1-4),10,89
NYKZAU 52,126S,56
NYKZAU 52,126S,56
CSLNX* NX#03781
NYKZAU 52,113,56
NYKZAU 52,113,56

REVIEWS, STANDARDS, AND REGULATIONS

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,4388,89

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PAGE 2

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PO#: QE3166

PRODUCT #:

MF: C10H16N2O8

NAME: ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM
SALT DIHYDRATE, 99+%, A.C.S. REAGENT

--- TOXICITY HAZARDS ---

NOHS 1974: HZD 83643; NIS 45; TNF 5010; NDS 47; TNE 43360
NOES 1983: HZD 83643; NIS 62; TNF 8199; NDS 69; TNE 106998; TFE 62467
EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST
EPA TSCA CHEMICAL INVENTORY, JUNE 1990

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

--- HEALTH HAZARD DATA ---

ACUTE EFFECTS

HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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.

--- PHYSICAL DATA ---

MELTING POINT: 248 C (DEC)

APPEARANCE AND ODOR

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--- PHYSICAL DATA ---

WHITE POWDER

--- FIRE AND EXPLOSION HAZARD DATA ---

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.

--- REACTIVITY DATA ---

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES

--- SPILL OR LEAK PROCEDURES ---

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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.

WASTE DISPOSAL METHOD

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.

CONTINUED ON NEXT PAGE

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