



SIGMA-ALDRICH

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DATE 08/03/96
CUST#: 2-043-15940
PO#: P0082800

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

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

CATALOG #: E5513
NAME: ETHYLENEDIAMINETETRAACETIC ACID
DISODIUM, DIHYDRATE,
ELECTROPHORESIS REAGENT

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

CAS #: 6381-92-6
MF: C10H14N2NA2O8

SYNONYMS

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

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

LABEL PRECAUTIONARY STATEMENTS

HARMFUL
HARMFUL IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
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 WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS

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DISODIUM, DIHYDRATE,
ELECTROPHORESIS REAGENT

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.

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, 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 - - - - -

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL SOLID.
IRRITANT.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR

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LAB

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WHITE POWDER

PHYSICAL PROPERTIES

MELTING POINT: 248 C (DEC)

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

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES

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

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.

RTECS #: AH4375000

ACETIC ACID, (ETHYLENEDINITRIL)TETRA-, DISODIUM SALT

TOXICITY DATA

ORL-RAT LD50:2 GM/KG	FEPR7 27,465,68
ORL-MUS LD50:2050 MG/KG	NYKZAU 52,126,56
IPR-MUS LD50:260 MG/KG	NYKZAU 52,126,56
IVN-MUS LD50:56 MG/KG	CSLNX* NX#03781
ORL-RBT LD50:2300 MG/KG	NYKZAU 52,113,56
IVN-RBT LD50:47 MG/KG	NYKZAU 52,113,56

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.

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

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

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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

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

HARMFUL

R 22

HARMFUL IF SWALLOWED.

R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S 26

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

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,89

NOHS 1974: HZD 83643; NIS 45; TNF 5010; NOS 47; TNE 43360

NOES 1983: HZD 83643; NIS 62; TNF 8199; NOS 69; TNE 106998; TFE 62467

EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

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

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