

FISHER SCIENTIFIC -- ETHYLENEDIAMINE TETRAACETIC ACID, S80007 -- 6810-00-926-4771  
===== Product Identification =====

Product ID:ETHYLENEDIAMINE TETRAACETIC ACID, S80007

MSDS Date:02/01/1999

FSC:6810

NIIN:00-926-4771

MSDS Number: CJQGH

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Ph

one Num:800-424-9300 (CHEMTREC)

Resp. Party Other MSDS Num.:09570

Chemtrec Ind/Phone:(800)424-9300

CAGE:IB464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Phone:201-796-7100

CAGE:IB464

===== Composition/Information on Ingredients =====

Ingred Name:ETHYLENEDIAMINETETRAACETIC ACID; (ETHYLENEDIAMINE  
TETRAACETIC ACID)

CAS:60-00-4

RTECS #:AH4025000

> Wt:99.

Other REC Limits:N/K

OS

HA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, MOUSE): 30 MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: EYES: MAY CAUSE EYE IRRITATION.  
SKIN: MAY CAUSE SKIN IRRITATION. INGESTION: MAY CAUSE IRRITATION OF  
THE DIGESTIVE TRACT. EX  
POSURE MAY CAUSE KIDNEY INJURY, MUSCLE  
CRAMPS, BONE-MARROW DEPRESSION, AND A GENERALIZED ALLERGIC  
REACTION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.  
CHRONIC: NO INFORMATION FOUND.  
Explanation of Carcinogenicity:NOT LISTED BY ACGIH, IARC, NIOSH, NTP,  
OSHA.  
Effects of Overexposure:SEE HEALTH HAZARDS.

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===== First Aid Measures =====

First Aid:EYES: IMMEDIATELY FLUSH W/PLENTY OF WATER FOR AT LEAST 15  
MINUTES, OCCASIONALLY LIFTING  
THE UPPER & LOWER EYELIDS. GET  
MEDICAL AID IMMEDIATELY. SKIN: IMMEDIATELY FLUSH W/PLENTY OF SOAP &  
WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING  
& SHOES. GET MEDICAL AID IF IRRITATION DEVELOPS/PERSISTS.  
INGESTION: TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MEDICAL AID  
IMMEDIATELY. INHALATION : REMOVE FROM EXPOSURE TO FRESH AIR  
IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF  
BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID IF CO  
UGH/OTHER  
SYMPTOMS APPEAR. NOTES TO MD: TRE AT SYMPTOMATICALLY &  
SUPPORTIVELY.

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===== Fire Fighting Measures =====

Extinguishing Media:FOR SMALL FIRES, USE WATER SPRAY, DRY CHEMICAL,  
CARBON DIOXIDE OR CHEMICAL FOAM.  
Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE  
EQUIPMENT .  
Unusual Fire/Explosion Hazard:DUSTS AT SUFFICIENT CONCENTRATIONS CAN  
FORM EXPLOSIVE MIXTURES WITH AIR. NFPA RATING (ESTIMATED): HEALTH:  
2; FLAM

MABILITY: 0; REACTIVITY: 0.

===== Accidental Release Measures =====

Spill Release Procedures:USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN CONTROL MEASURES SECTION. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND APPROPRIATE PERSONAL PROTECTION. (SEE CONTROL MEASURES SECTION.) AVOID GENERATING DUSTY CONDITIONS. CAREFULLY SCOOP UP AND PLACE INTO APPROPRIATE DISPOSAL CONTAINER.

===== Handling and Storage ==  
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Handling and Storage Precautions:USE WITH ADEQUATE VENTILATION. MINIMIZE DUST GENERATION AND ACCUMULATION. AVOID CONTACT WITH SKIN AND EYES. KEEP CONTAINER TIGHTLY CLOSED. AVOID INGESTION AND INHALATION.

Other Precautions:DO NOT STORE IN DIRECT SUNLIGHT. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE ADEQUATE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS LOW.

Protective Gloves:WEAR APPROPRIATE GLOVES TO PREVENT SKIN CONTACT. WEAR IMPERMEABLE GLOVES .

Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA

A . WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Supplemental Safety and Health

MOLECULAR FORMULA: C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub>. MOLECULAR WEIGHT: 292.1206.

===== Physical/Chemical Properties =====

Boiling Pt.=220.C, 428.F

Melt/Freeze Pt.=247.8C, 478.F

Decomp Temp.=247.8C, 478.F

Vapor Pres:NEGLIGIBLE

Spec Gravity:0.86 @ 20C

Evaporation Rate & Refer

ence:NEGLIGIBLE

Solubility in Water:0.5 G/L @ 25C

Appearance and Odor:COLORLESS TO WHITE SOLID; ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG BASES, COPPER, COPPER ALLOYS, ALUMINUM.

Stability Condition to Avoid:STABLE AT ROOM TEMPERATURE IN CLOSED  
CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.  
DECARBOXYLATES ABOVE 150C. AVOID INCOMPATIBLE MATERIALS.

Hazardous Decompositi

on Products:NITROGEN OXIDES, CARBON MONOXIDE,  
CARBON DIOXIDE.

===== Toxicological Information =====

Toxicological Information:RTECS #: CAS # 60-00-4: AH4025000.

EPIDEMIOLOGY: NO INFORMATION AVAILABLE. TERATOGENICITY: EMBRYO OR  
FETUS: STUNTED FETUS, ORAL-RAT TDLO=7632 MG/KG. SPECIFIC  
DEVELOPMENTAL ABNORMALITIES: CARDIOVASCULAR, CRANIOFACIAL,  
MUSCULOSKELETAL, RESPIRATORY, AND UROGENITAL, ORAL-RAT TDLO=7632  
MG/KG. REPRODUCTIVE EFFECTS: FERTILI

TY: POST-IMPLANTATION

MORTALITY, ORAL-RAT TDLO=7632 MG/KG. NEUROTOXICITY: NO INFORMATION  
AVAILABLE. MUTAGENICITY: CYTOGENETIC ANALYSIS:  
INTRAPERITONEAL-MOUSE 50 MMO L/L. DNA INHIBITION: HAMSTER  
FIBROBLAST 500 UG/L, RABBIT KIDNEY 250 UMO L/L. OTHER STUDIES:  
NONE.

===== Ecological Information =====

Ecological:ECOTOXICITY: NOT AVAIL. ENVIRONMENTAL FATE: BIOLOGICAL  
OXYGEN DEMAND (BOD): 1%, 5 DAYS. IF RELEASED TO SOIL, METALS  
PRESENT TO

COMPLEX W/TRACE METALS & ALKALINE EARTH METALS PRESENT

IN SOIL, THEREBY CAUSING INCREASE IN TOTAL SOLUBILITY OF METALS.

PHYSICAL/CHEM: NO INFO AVAIL. OTHER: NONE. OTHER INFO: WGK (WATER  
DANGER/PROT): CAS # 60-00-4: 2. CANADA: CAS # 60-00-4 IS LISTED ON  
CANADA'S DSL/NDL LIST. THIS PROD HAS A WHMIS CLASSIFICATION OF  
D2B. CAS # 60-00-4 IS NOT LISTED ON CANADA'S ING DISCLOSURE LIST.

===== Disposal Considerations =====

Waste Disposal Methods:D

ISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL,  
STATE, AND LOCAL REGULATIONS. RCRA P-SERIES: NONE LISTED. RCRA  
U-SERIES: NONE LISTED.

===== MSDS Transport Information =====

Transport Information:US DOT: NO INFORMATION AVAILABLE. IMO: NOT  
REGULATED AS A HAZARDOUS MATERIAL. IATA: NOT REGULATED AS A  
HAZARDOUS MATERIAL. RID/ADR: NOT REGULATED AS A HAZARDOUS MATERIAL.  
CANADIAN TDG: SHIPPING NAME: EDTA. HAZARD CLASS: 9.2. UN NUMBER:  
UN9117. OTHER  
INFORMATION: REGULATED LIMIT 230 KG.

===== Regulatory Information =====

SARA Title III Information:SECTION 302 (RQ): CAS # 60-00-4: FINAL RQ:  
5000 POUNDS (2270 KG). SECTION 302 (TPQ): NONE OF THE CHEMICALS IN  
THIS PRODUCT HAVE A TPQ. SECTION 313: NO CHEMICALS ARE REPORTABLE  
UNDER SECTION 313.

Federal Regulatory Information:US FED: TSCA: CAS # 60-00-4 IS LISTED ON  
TSCA INVENTORY. HLTH & SFTY REPORTING LIST: NONE OF THE CHEMS ARE  
ON THE HLTH  
& SFTY REPORTING LIST. CHEM TEST RULES: NONE OF THE  
CHEMS IN THIS PROD ARE UNDER CHEM TEST RULE. SECTION 12B: NONE OF  
THE CHEMS ARE LISTED UNDER TSCA SECTION 21B. TSCA SIGNIFICANT NEW  
USE RULE: NONE OF THE CHEMS IN THIS MATL HAVE A SNUR UNDER TSCA.  
CLEAN AIR ACT: THIS MATL DOES NOT CONTAIN ANY HAZ AIR POLLUTANTS.  
THIS MATL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS. THIS MATL  
DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS. (OTHER INFO)

State Regulatory Information:ETH  
YLENEDIAMINE TETRAACETIC ACID CAN BE  
FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW  
JERSEY, PENNSYLVANIA, MASSACHUSETTS. CALIFORNIA NO SIGNIFICANT RISK  
LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

===== Other Information =====

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