

SPECTRUM CHEMICAL MFG CORP -- 2-ETHOXYETHANOL -- 6810-00-285-4309

===== Product Identification =====

Product ID:2-ETHOXYETHANOL

MSDS Date:09/26/1997

FSC:6810

NIIN:00-285-4309

Status Code:A

MSDS Number: CJZFF

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MFG CORP

Address:14422 S SAN PEDRO ST

City:GARDENA

State:CA

ZIP:90248

Country:US

Info Phone Num:310-516-8000

Emergency Phone Num:310-5

16-8000

Resp. Party Other MSDS Num.:E3220

Preparer's Name:E.BRULL

Chemtec Ind/Phone:(800)424-9300

CAGE:63415

=== Contractor Identification ===

Company Name:SPECTRUM LABORATORY PRODUCTS INC

Address:14422 S SAN PEDRO ST

Box:City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Phone:310-516-8000/FAX: 310-516-9843

CAGE:63415

Company Name:TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-00-M-D294

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Composition/Information on Ingredients  
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Ingred Name:2-ETHOXYETHANOL  
CAS:110-80-5  
RTECS #:KK8050000  
= Wt:100.  
OSHA PEL:740 MG/M3;200 PPM  
ACGIH TLV:18 MG/M3;5 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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Hazards Identification  
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LD50 LC50 Mixture:ORAL RAT LD50: 2125 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:VERY DANGEROUS IN CASE OF SKIN CONTACT  
(IRRITANT, PERMEATOR), OF EYE CONTACT (IRRITANT), OF INGESTION, OF  
INHALATION. SEVERE OVER-EXPOSURE CAN RESULT IN DEATH, CAN BE FATAL  
IF INHALED OR INGESTED. THIS PRODUCT MAY IRRITATE EYES AND SKIN  
UPON CONTACT. THE SUBSTANCE IS TOXIC TO BLOOD, KIDNEYS, LUNGS, THE  
NERVOUS SYSTEM, LIVER MUCOUS MEMBRANES. REPEATED OR PROLONGED  
EXPOSURE TO THE SUBSTANCE CAN PRODUCE TARGET ORGANS DAMAGE.  
Explanation of Carcinogenicity:NONE SPECIFIED BY RESPONSIBLE PARTY.  
Effects of Overexposure:INFLAMMATION OF THE EYE IS CHARACTERIZED BY  
REDNESS, WATERING, AND ITCHING. SKIN INFLAMMATION IS CHARACTERIZED  
BY ITCHING, SCALING, REDDENING, OR, OCCASIONALLY, BLISTERING. CAN  
BE FATAL IF INHALED OR INGESTED.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY RESPONSIBLE  
PARTY.

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First Aid Measures  
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First Aid:EYE CONTACT: CHECK FOR AND REMOVE ANY CONTACT LENSES.  
IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES,  
KEEPING EYELIDS OPEN. COLD WATER MAY BE USED. DO NOT USE AN EYE  
OINTMENT. SERIOUS SKIN CONTACT: WASH WITH A DISINFECTANT SOAP AND  
COVER THE CONTAMINATED SKIN WITH AN ANTI-BACTERIAL CREAM.  
INHALATION: ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA.  
INGESTION: REMOVE DENTURES IF ANY, WATCH FOR AN OBSTRUCTION IN THE  
VICTIM'S MOUTH, REMOVE IF POSSIBLE WHAT IS CAUSING THE OBSTRUCTION  
BUT DO NOT FORCE FINGERS OR A HARD OBJECT BETWEEN THE VICTIM'S  
TEETH. HAVE CONSCIOUS

S PERSON D RINK SEVERAL GLASSES OF WATER OR MILK.

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

Flash Point Method:SCC

Flash Point:=43.C, 109.4F

Autoignition Temp:=235.C, 455.F

Lower Limits:1.8%

Upper Limits:16%

Extinguishing Media:SMALL FIRE: USE DRY CHEMICALS, CARBON DIOXIDE (CO2), WATER SPRAY OR FOAM. LARGE FIRE: USE WATER SPRAY, FOG OR FOAM. DO NOT USE WATER JET.

Fire Fighting Procedures:NONE SPECIFIED BY RESPONSIBLE PARTY.

Unusual Fire/Explosion Hazard:

FLAMMABILITY OF THE PRODUCT: COMBUSTIBLE.

PRODUCTS OF COMBUSTION: THESE PRODUCTS ARE CARBON OXIDES(CO, CO2).

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

Spill Release Procedures:SMALL SPILL: DILUTE WITH WATER AND MOP UP, OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. LARGE SPILL: COMBUSTIBLE MATERIAL. POISONOUS LIQUID. KEEP AWAY FRO M HEAT. KEEP AWAY FROM SOURCES OF IGNITION. STOP LEAK IF WITHOUT RISK. DO N

OT GET WATER INSIDE CONTAINER. DO

NOT TOUCH SPILLED MATERIAL. USE WATER SPRAY TO REDUCE VAPORS.PREVENT ENTRY INTO SEWERS, BAS

Neutralizing Agent:NONE SPECIFIED BY RESPONSIBLE PARTY.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER DRY. KEEP IN A COOL PLACE. GROUND ALL EQUIPMENT CONTAINING MATERIAL. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN A COOL, WELL-VENTILATED PLACE. HIGHLY TOXIC OR INFECTIOUS MATERIALS SHOU

LD BE STORED IN A SEPARATE LOCKED SAFETY STORAGE CABINET OR ROOM.

Other Precautions:KEEP LOCKED UP. KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. EMPTY CONTAINERS POSE A FIRE RISK, EVAPORATE THE RESIDUE UNDER A FUME HOOD. GROUND ALL EQUIPMENT CONTAINING MATERIAL. DO NOT IN GEST. DO NOT BREATHE GAS, FUMES, VAPOR OR SPRAY. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMEN

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

Respiratory Protection:A SELF CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT. BE SURE TO USE A MSHA/NIOSH APPROVED RESPIRATOR OR EQUIVALENT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

Ventilation:PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE THRESHOLD LIMITS.

Protective Gloves:GLOVES (IMPERVIOUS).

Eye Protection:SPLASH GOGGLES.

Other Protective

Equipment:LARGE SPILL: SPLASH GOGGLES. FULL SUIT.

VAPOR RESPIRATOR. BOOTS. GLOVES. A SELF CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT.

Work Hygienic Practices:NONE SPECIFIED BY RESPONSIBLE PARTY.

Supplemental Safety and Health

ENSURE THAT EYEWASH STATION AND SAFETY SHOWER IS PROXIMAL TO THE WORK-STATION LOCATION.

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

HCC:F4

Boiling Pt:=135.1C, 275.2F

Melt/Freeze Pt:=-70.C, -94.F

Vapor Pres:3.8 MM OF HG@20C

Vapor Density:3.11

Spec Gravity:0.931

pH:NOT AVAILABLE

Solubility in Water:SOLUBLE IN COLD WATER

Appearance and Odor:LIQUID,PLEASANT ODOR,BITTER TASTE, CLEAR COLORLESS.

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

NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE REACTIVITY OF THIS MATERIAL IN PRESENCE OF VARIOUS OTHER MATERIALS.

Stability Condition to Avoid:NO ADDITIONAL REMARK.

Hazardous Decomposition Products:PRODUCTS OF

COMBUSTION: THESE PRODUCTS

ARE CARBON OXIDES(CO, CO<sub>2</sub>).

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

Toxicological Information:TOXICITY TO ANIMALS (BASED ON 4-HR EXPOSURE):

ACUTE ORAL TOXICITY (LD<sub>50</sub>): 2125 MG/KG (RAT). ACUTE DERMAL TOXICITY

(LD<sub>50</sub>): 3300 MG/KG (RABBIT). ACUTE TOXICITY OF THE VAPOR (LC<sub>50</sub>):

2828 PPM (RAT). CHRONIC EFFECTS ON HUMANS: THE SUBSTANCE IS TOXIC

TO BLOOD, KIDNEYS, LUNGS, THE NERVOUS SYSTEM, LIVER, MUCOUS

MEMBRANES. TOXICIT

Y OF THE PRODUCT TO THE REPRODUCTIVE SYSTEM: NOT AVAILABLE. OTHER TOXIC EFFECTS TO HUMANS: VERY DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT, PERMEATOR), OF EYE CONTACT (IRRITANT), OF INGESTION, OF INHALATION.

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Ecological Information  
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Ecological: ECOTOXICITY: NOT AVAILABLE. BODS & COD: NOT AVAILABLE. PRODUCTS OF BIODEGRADATION: CARBON OXIDES (CO, CO<sub>2</sub>). TOXICITY OF THE PRODUCTS OF BIODEGRADATION: MORE TOXIC. SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: NO ADDITIONAL REMARKS.

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Disposal Considerations  
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Waste Disposal Methods: RECYCLE TO PROCESS, IF POSSIBLE. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

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MSDS Transport Information  
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Transport Information: DOT CLASSIFICATION: DOT CLASS 3: FLAMMABLE LIQUID; DOT CLASS 6.1: POISONOUS MATERIAL. IDENTIFICATION: UN1171 III. SPECIAL PROVISIONS: NO DOT, REF 49CFR, 173.150.

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Regulatory Information  
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SARA Title III Information: SARA 313: 2-ETHOXYETHANOL.  
Federal Regulatory Information: OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATIONS STANDARD (29 CFR 1910.1200). TSCA: ON THE TSCA LIST. CERCLA LISTED: 2-ETHOXYETHANOL. TSCA LISTED: 2-ETHOXYETHANOL.  
State Regulatory Information: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: 2-ETHOXYETHANOL. 2-ETHOXYETHANOL LISTED BY FOLLOWING STATES: MASSACHUSETTS, PENNSYLVANIA.

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Other Information  
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