



chemists helping chemists in research & industry

aldrich chemical co.

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ATTN: SAFETY DIRECTOR
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P O BOX 296
WHITEWATER WI 53190

DATE: 01/06/88
CUST # 523216 P.O. # UNH-81643

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

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IDENTIFICATION

PRODUCT # T5945-5 NAME: TRIETHYLENE GLYCOL, 99+%
CAS # 112-27-6

TOXICITY HAZARDS

RTECS # YE4550000

TRIETHYLENE GLYCOL

IRRITATION DATA

SKN-RBT 500 MG/24H MOD

FCTXAV 17,913,79

TOXICITY DATA

ORL-HMN LDLO:5000 MG/KG

FCTXAV 17,913,79

ORL-RAT LD50:17 GM/KG

JIHTAB 28,40,46

IVN-RAT LD50:11700 MG/KG

ARZNAD 18,1536,68

IPR-MUS LD50:8141 MG/KG

FEPRAT 6,342,47

SCU-MUS LD50:8750 MG/KG

JPETAB 65,89,39

IVN-MUS LD50:6500 MG/KG

JPETAB 65,89,39

ORL-RBT LD50:8400 MG/KG

JIHTAB 28,40,46

IVN-RBT LD50:1900 MG/KG

ARZNAD 18,1536,68

ORL-GPG LD50:7900 MG/KG

JIHTAB 28,40,46

IVN-GPG LD50:10600 MG/KG

ARZNAD 18,1536,68

REVIEWS, STANDARDS, AND REGULATIONS

EPA TSCA CHEMICAL INVENTORY, 1986

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1987

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,

82

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

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

CAUSES SKIN IRRITATION. PROLONGED EXPOSURE CAN CAUSE: NAUSEA, HEADACHE AND VOMITING

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

MELTING POINT: -7 C
BOILING POINT: 285 C
SPECIFIC GRAVITY: 1.125
VAPOR DENSITY: 5.18

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PAGE: 2

CATALOG # T5945-5

NAME: TRIETHYLENE GLYCOL, 99+%

----- FIRE AND EXPLOSION HAZARD DATA -----

AUTO IGNITION TEMP.: 699 F
LOWER EXPLOSION LEVEL: .9%
UPPER EXPLOSION LEVEL: 9.2%
FLASH POINT: 330 F
EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSION HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG ACIDS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE

----- 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.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.
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 & LOCAL LAWS.

----- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE -----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
HYGROSCOPIC.
STORE IN A COOL DRY PLACE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

NOT APPLICABLE

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT
TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL
NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM
CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING
SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN WHITEWATER
P O BOX 296
WHITEWATER WI 53190

DATE: 08/12/88
CUST # 523216 P.O. # UN191465

TO: SAFETY DIRECTOR
SUBJECT: MATERIAL SAFETY DATA SHEETS (MSDS'S)

AUGUST 12, 1988

ENCLOSED ARE MATERIAL SAFETY DATA SHEETS FOR PRODUCTS YOU HAVE RECENTLY PURCHASED. THESE ARE BEING SENT TO YOUR ATTENTION SO THAT YOU CAN DIRECT THE INFORMATION TO THOSE IN YOUR ORGANIZATION WHO REQUIRE IT.

ALDRICH'S POLICY IS TO PROVIDE MSDS'S WITH THE FIRST ORDER FOR PRODUCTS WHICH ARE CONSIDERED HAZARDOUS. ON SUBSEQUENT ORDERS, NO ADDITIONAL MSDS'S WILL BE PROVIDED UNLESS A SIGNIFICANT CHANGE IN INFORMATION OCCURS.

THANK YOU FOR YOUR CONTINUED USE OF ALDRICH PRODUCTS.

ALDRICH CHEMICAL COMPANY
MSDS DEPARTMENT

ALDRICH



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