ATTN: SAFETY DIRECTOR

J GREGORIUS
UNIVERSITY OF WISCONSIN WHITewater
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WHITewater WI 53190-0296

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 #: T1560-1
NAME: TETRAHYDROTHIOPHENE, 99%

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

CAS #: 110-01-0
MF: C4H8S
EC NO: 203-728-9

SYNONYMS
TETRAHYDROTHIOPHEN (CZECH) * TETRAHYDROTHIOPHENE (DOT) *
TETRAMETHYLENESULFIDE * THIACYCLOPENTANE * THILANE * THIOFAN (CZECH) *
THIOLANE * THIOPHANE * UN2412 (DOT) *

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

LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE (USA)
HIGHLY FLAMMABLE (EU)
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
DO NOT EMPTY INTO DRAINS.
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
STENCH.
KEEP TIGHTLY CLOSED.

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 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.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

SECTION 5. - - - - - - FIRE FIGHTING MEASURES - - - - - -

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER MAY BE EFFECTIVE FOR COoling, BUT MAY NOT EFFECT EXTINGUISHMENT.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
CONTINUED ON NEXT PAGE

We are committed to the success of our customers through science, technology and service.
CATALOG #: T1560-1
NAME: TETRAHYDROTHIOPHENE, 99%

FLAMMABLE. VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK. CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - - - ACCIDENTAL RELEASE MEASURES - - - - - - -
EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED
CONTAINERS, TRANSPORT OUTDOORS.
USE NONSPARKING TOOLS.
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 - - - - -
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STENCH.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
APPEARANCE AND ODOR
COLORLESS LIQUID

PHYSICAL PROPERTIES
BOILING POINT: 119 °C
MELTING POINT: -96 °C
FLASHPOINT 55 °F
12°C
VAPOR PRESSURE: 34MM 37.7 °C 18MM 25 °C
SPECIFIC GRAVITY: 1.000

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

CONTINUED ON NEXT PAGE
CATALOG #: T1560-1
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STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
SULFUR OXIDES
HYDROGEN SULFIDE GAS

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE IRRITATION.
EXPOSURE CAN CAUSE:
NAUSEA, HEADACHE AND VOMITING
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: XN0370000
THIOPHENE, TETRAHYDRO-

TOXICITY DATA
IHL-MUS LC50: 27 GM/M3/2H 85JCAE - 1.088,86
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
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND
SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY
FLAMMABLE.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION
CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. REGULATORY INFORMATION
EUROPEAN INFORMATION
EC INDEX NO: 613-087-00-0
HIGHLY FLAMMABLE
R 11
HIGHLY FLAMMABLE.
R 20/21/22
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 36/38

CONTINUED ON NEXT PAGE
ALDRICH CHEMICAL COMPANY, INC.
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MILWAUKEE, WISCONSIN 53201, USA

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CATALOG #: T1560-1
NAME: TETRAHYDROTHIOPHENE, 99%

IRRITATING TO EYES AND SKIN.
S 16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
S 23 DO NOT BREATHE VAPOR.
S 36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

REVIEWS, STANDARDS, AND REGULATIONS

OEL = MAK
NOHS 1974: HZD T0475; NIS 2; TNF 29; NOS 2; TNE 225
NOES 1983: HZD T0475; NIS 1; TNF 24; NOS 1; TNE 5593
EPA TSCA SECTION 8(b) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, OCTOBER 1996

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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