



chemists helping chemists in research & industry
aldrich chemical co., inc.
 P.O. Box 355, Milwaukee, Wisconsin 53201 USA

NOTE SENT TO JOEL REGARDING
 EXTREME HAZARDOUS
 B.C.

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DATE: 12/16/93
 CUST#: 938609
 PO#: 75906

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 - - - - -

PRODUCT #: 32056-0 NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

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

CAS #: 584-84-9
 MF: C9H6N2O2

SYNONYMS

CRESORCINOL DIISOCYANATE * DESMODUR T80 * DI-ISOCYANATE DE TOLUYLENE
 (FRENCH) * DI-ISO-CYANATOTOLUENE * 2,4-DIISOCYANATO-1-METHYLBENZENE
 (9CI) * 2,4-DIISOCYANATOTOLUENE * DIISOCYANAT-TOLUOL (GERMAN) *
 HYLENE T * ISOCYANIC ACID, METHYLPHENYLENE ESTER * ISOCYANIC ACID, 4-
 METHYL-M-PHENYLENE ESTER * HYLENE TPCA * HYLENE TLC * HYLENE TM *
 HYLENE TM-65 * HYLENE TRF * 4-METHYL-PHENYLENE DIISOCYANATE * 4-
 METHYL-PHENYLENE ISOCYANATE * MONDUR TD * MONOUR TD-80 * MONOUR TDS *
 NACCONATE 100 * NCI-C50533 * NIAH TDI * NIAH TDI-P * RCRA WASTE
 NUMBER U223 * RUBINATE TDI 80/20 * TDI * 2,4-TDI * TDI-80 * TDI (OSHA)
 * TOLUEEN-DIISOCYANAAT (DUTCH) * TOLUEN-DISOCIANATO (ITALIAN) *
 TOLUENE DIISOCYANATE * TOLUENE-2,4-DIISOCYANATE * 2,4-
 TOLUENEDIISOCYANATE * TOLUENE-2,4-DIISOCYANATE (ACGIH, OSHA) *
 TOLUILENODWUIZOCYJANIAN (POLISH) * TULUYLENDIISOCYANAT (GERMAN) *
 TOLUYLENE-2,4-DIISOCYANATE * TOLYENE 2,4-DIISOCYANATE * META-TOLYLENE
 DIISOCYANATE * TOLYLENE-2,4-DIISOCYANATE * 2,4-TOLYLENEDIISOCYANATE *

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

HAZARD PRECAUTIONARY STATEMENTS

HIGHLY TOXIC (USA DEFINITION)
 VERY TOXIC (EUROPEAN DEFINITION)
 MAY CAUSE CANCER.
 VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
 MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
 CAUSES SEVERE IRRITATION.
 LACHRYMATOR.
 TARGET ORGAN(S):
 LUNGS
 IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE
 POSSIBLE).
 WEAR SUITABLE PROTECTIVE CLOTHING.
 NOTE CLOUDINESS OR PRECIPITATION IS UNAVOIDABLE
 AND SHOULD NOT AFFECT USE.

Post-It™ routing request pad 7664

CONTINUED ON N

ROUTING - REQUEST

Please

☐ READ

☐ HANDLE

☐ APPROVE

and

☐ FORWARD

☐ RETURN

☐ KEEP OR DISCARD

☐ REVIEW WITH ME

To JOEL:

PLEASE NOTE EXTREME
HAZARDOUS MATERIAL.
IS THERE ANY ACCEPTABLE
ALTERNATES TO THIS
ITEM?
YES

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

PAGE 2

PRODUCT #: 320560
MF: C9H6N2O2

NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

CUST#: 938609
PO#: 75906

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

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.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.
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.

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 - - - - -

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -
REFER TO SECTION 8.

CONTINUED ON NEXT PAGE

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SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
HIGHLY TOXIC.
SEVERE IRRITANT.
LACHRYMATOR.
CARCINOGEN.
STRONG SENSITIZER.
KEEP TIGHTLY CLOSED.
LIGHT AND MOISTURE SENSITIVE.
STORE UNDER NITROGEN.
REFRIGERATE.

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

APPEARANCE AND ODOR
COLORLESS LIQUID
BOILING POINT: 115 C TO 120 C/10MM.
FLASHPOINT 250 F
120C
AUTOIGNITION TEMPERATURE: >1148 F > 619C
LOWER EXPLOSION LEVEL: 0.9%
SPECIFIC GRAVITY: 1.225

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

INCOMPATIBILITIES
ALCOHOLS
STRONG BASES
AMINES
ACIDS

CONTINUED ON NEXT PAGE

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PAGE 4

CUST#: 938609

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PRODUCT #: 320560
MF: C9H6N2O2

NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

STRONG OXIDIZING AGENTS

HEAT

LIGHT SENSITIVE

MOISTURE SENSITIVE

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE,
AND NITROGEN OXIDES.

HYDROGEN CYANIDE

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

ACUTE EFFECTS

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.

CAUSES SEVERE IRRITATION.

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES

AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

PROLONGED CONTACT CAN CAUSE:

SEVERE IRRITATION OR BURNS.

LUNG IRRITATION, CHEST PAIN AND EDEMA WHICH MAY BE FATAL.

REPEATED EXPOSURE MAY CAUSE ASTHMA.

MAY CAUSE ALLERGIC REACTION.

CHRONIC EFFECTS

CARCINOGEN.

TARGET ORGAN(S):

LUNGS

RTECS NO: CZ6300000

BENZENE, 2,4-DIISOCYANATO-1-METHYL-

IRRITATION DATA

SKN-RBT 500 MG OPEN SEV

SKN-RBT 500 MG/24H MOD

EYE-RBT 100 MG SEV

UCDS** 3/8/73

EJTXAZ 9,41,76

EJTXAZ 9,41,76

TOXICITY DATA

ORL-RAT LD50:5800 MG/KG

IHL-RAT LC50:14 PPM/4H

IHL-MUS LC50:10 PPM/4H

IVN-MUS LD50:56 MG/KG

SKN-RBT LD50:>16 GM/KG

IHL-GPG LC50:13 PPM/4H

ORL-BWD LD50:100 MG/KG

AMIHAB 15,324,57

AIHAAP 23,447,62

AIHAAP 23,447,62

CSLNX* NX#07807

UCDS** 3,8,73

AIHAAP 23,447,62

AECTCV 12,355,83

TARGET ORGAN DATA

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PAGE 5

CUST#: 938609

PO#: 75906

PRODUCT #: 320560
MF: C9H6N2O2

NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

SENSE ORGANS AND SPECIAL SENSES (OTHER OLFACTION EFFECTS)
SENSE ORGANS AND SPECIAL SENSES (LACRIMATION)
SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)
BEHAVIORAL (EXCITEMENT)
LUNGS, THORAX OR RESPIRATION (CHANGE IN TRACHEA OR BRONCHI)
LUNGS, THORAX OR RESPIRATION (CHANGES IN PULMONARY VASCULAR RESISTANCE)
LUNGS, THORAX OR RESPIRATION (PLEURAL EFFUSION)
LUNGS, THORAX OR RESPIRATION (COUGH)
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)
LUNGS, THORAX OR RESPIRATION (SPUTUM)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
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 -----

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 ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. ----- REGULATORY INFORMATION -----

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 0.005 PPM; STEL 0.02 PPM	85INA8 5,580,86
IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE	IMEMDT 39,287,86
IARC CANCER REVIEW:HUMAN NO ADEQUATE DATA	IMEMDT 39,287,86
IARC CANCER REVIEW:GROUP 2B	IMSUDL 7,56,87
MSHA STANDARD:AIR-CL 0.02 PPM (0.14 MG/M3)	
DTLVS* 3,260,71	
OSHA PEL:CL 0.02 PPM (0.14 MG/M3)	

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PAGE 6

CUST#: 938609

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PRODUCT #: 320560
MF: C9H6N2O2

NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 0.005 PPM (.04 MG/M3);STEL 0.02 PPM (.15 MG/M3)
FEREAC 54,2923,89
OEL-ARAB REPUBLIC OF EGYPT:TWA 0.02 PPM (0.14 MG/M3) JANUARY 1993
OEL-BELGIUM:TWA 0.005 PPM (0.036 MG/M3);STEL 0.02 PPM (0.14 MG/M3)
JANUARY 1993
OEL-CZECHOSLOVAKIA:TWA 0.07 MG/M3;STEL 0.14 MG/M3 JANUARY 1993
OEL-DENMARK:TWA 0.005 PPM (0.035 MG/M3);CARCINOGEN JANUARY 1993
OEL-FRANCE:TWA 0.01 PPM (0.08 MG/M3);STEL 0.02 PPM (0.16 MG/M3)
JANUARY 1993
OEL-GERMANY:TWA 0.01 PPM (0.07 MG/M3) JANUARY 1993
OEL-HUNGARY:STEL 0.04 MG/M3 JANUARY 1993
OEL-JAPAN:TWA 0.02 PPM (0.14 MG/M3) JANUARY 1993
OEL-THE NETHERLANDS:TWA 0.02 PPM (0.14 MG/M3);SKIN JANUARY 1993
OEL-THE PHILIPPINES:TWA 0.02 PPM (0.14 MG/M3) JANUARY 1993
OEL-RUSSIA:STEL 0.05 MG/M3 JANUARY 1993
OEL-SWEDEN:TWA 0.005 PPM (0.04 MG/M3);STEL 0.01 PPM (0.07 MG/M3)
JANUARY 1993
OEL-SWITZERLAND:TWA 0.005 PPM (0.04 MG/M3);STEL 0.01 PPM (0.08 MG/M3)
JANUARY 1993
OEL-THAILAND:TWA 0.02 PPM (0.14 MG/M3) JANUARY 1993
OEL-TURKEY:TWA 0.02 PPM (0.14 MG/M3) JANUARY 1993
OEL-UNITED KINGDOM:TWA 0.02 MG/M3;STEL 0.07 MG/M3 JANUARY 1993
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,
VIETNAM CHECK ACGIH TLV
NOHS 1974: HZD 73390; NIS 47; TNF 2310; NOS 54; TNE 26654
NOES 1983: HZD 73390; NIS 19; TNF 838; NOS 30; TNE 10921; TFE 545
EPA TSCA CHEMICAL INVENTORY, JANUARY 1993
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1993
NIOSH ANALYTICAL METHODS: SEE TOLUENE-2,4-DIISOCY ANATE, 2535
OSHA ANALYTICAL METHOD #18, SUPERSEDED BY #42
THE CONFIRMATION OF THE UREA DERIVATIVE BY THERMO ENERGY ANALYZER (TEA)
METHOD #33
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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

CONTINUED ON NEXT PAGE

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CUST#: 938609

PO#: 75906

PRODUCT #: 320560
MF: C9H6N2O2

NAME: TOLYLENE 2,4-DIISOCYANATE, TECH., 80%

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