



REC'D JUL 30 1998

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SIGMA-ALDRICH

ALDRICH CHEMICAL COMPANY, INC. *ALC00001*
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

ATTN: SAFETY DIRECTOR

EMERGENCY PHONE 1-414-273-3850

MARY SEVERSON
THE TRANE CO ENVIRONMENTAL SER
3600 PAMMEL CREEK RD
LA CROSSE WI 54601-7511

DATE 07/23/98
CUST#: 947995
PO#:

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 #: E2916-8
NAME: 2-ETHYL-1-HEXANOL, 99+%

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 104-76-7
MF: C8H18O
EC NO: 203-234-3

SYNONYMS

2-AETHYLHEXANOL (GERMAN) * ETHYLHEXANOL * 2-ETHYLHEXANOL * 2-ETHYL-1-HEXANOL * 2-ETHYLHEXYL ALCOHOL *

SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS

HARMFUL
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
RISK OF SERIOUS DAMAGE TO EYES.
COMBUSTIBLE LIQUID.
TARGET ORGAN(S):
LIVER, KIDNEYS
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

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 IMMEDIATELY.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

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CATALOG #: E2916-8
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WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
COMBUSTIBLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

WEAR SELF-CONTAINED BREATHING APPARATUS, 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.

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.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL LIQUID.
SEVERE EYE IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
COLORLESS LIQUID

PHYSICAL PROPERTIES

BOILING POINT: 183 C TO 186 C
MELTING POINT: -76 C
FLASHPOINT: 171 F
77C

EXPLOSION LIMITS IN AIR:
UPPER 9.7% 113 C
LOWER 0.88% 104 C
287C

AUTOIGNITION TEMPERATURE: 550 F
VAPOR PRESSURE: 0.2MM 20 C
SPECIFIC GRAVITY: 0.833
VAPOR DENSITY: 4.49

SECTION 10. STABILITY AND REACTIVITY

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CATALOG #: E2916-8
NAME: 2-ETHYL-1-HEXANOL, 99+%

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG ACIDS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

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

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
TARGET ORGAN(S):
LIVER
KIDNEYS
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: MP0350000
1-HEXANOL, 2-ETHYL-

IRRITATION DATA

SKN-RBT 415 MG OPEN MLD	UCDS** 11/11/1969
SKN-RBT 500 MG/24H MOD	FCTXAV 17,775,1979
EYE-RBT 20 MG SEV	AJOPAA 29,1363,1946
EYE-RBT 20 MG/24H MOD	85JCAE -,200,1986

TOXICITY DATA

ORL-RAT LD50:3730 MG/KG	AIHAAP 34,493,1973
SKN-RAT LD50:>3 GM/KG	NTIS** OTS0524344
IPR-RAT LD50:500 MG/KG	HYDRDA 3,201,1978
SCU-RAT LD50:650 MG/KG	NPIRI* 1,61,1974
PAR-RAT LD50:4600 MG/KG	FCTXAV 17,775,1979
ORL-MUS LD50:2500 MG/KG	ZHYGAM 20,575,1974
IPR-MUS LD50:759 MG/KG	ZHYGAM 20,575,1974
PAR-MUS LD50:1670 MG/KG	FCTXAV 17,775,1979
ORL-RBT LD50:1180 MG/KG	ZHYGAM 20,575,1974
SKN-RBT LD50:1970 MG/KG	NPIRI* 1,61,1974
ORL-GPG LD50:1860 MG/KG	ZHYGAM 20,575,1974

TARGET ORGAN DATA

SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (UROGENITAL SYSTEM)
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 - - - - -

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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 P A G E 4

CATALOG #: E2916-8
NAME: 2-ETHYL-1-HEXANOL, 99+%

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

THIS COMBUSTIBLE MATERIAL MAY BE BURNED 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 - - - - -

EUROPEAN INFORMATION

HARMFUL
R 20/21/22
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R 41
RISK OF SERIOUS DAMAGE TO EYES.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK
NOHS 1974: HZD M0262; NIS 67; TNF 3280; NOS 62; TNE 45342
NOES 1983: HZD M0262; NIS 97; TNF 11356; NOS 74; TNE 117564; TFE 11656
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1998

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

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