



chemists helping chemists in research & industry

aldrich chemical co.

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FEB 11 1991

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JOYCE KILBY/RISK MRMNT & SAFETY

DATE: 02/05/91
CUST#: 523216
PO#: LETTER 1/31/91

chemistry

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

IDENTIFICATION

PRODUCT #: E1250-8 NAME: ETHYLBENZENE, 99%
CAS #: 100-41-4
MF: C8H10

SYNONYMS

AETHYLBENZOL (GERMAN) * EB * ETHYLBENZEEN (DUTCH) * ETHYL BENZENE *
ETHYL BENZENE (ACGIH, DOT, OSHA) * ETHYLBENZOL * ETILBENZENE (ITALIAN) *
ETYLOBENZEN (POLISH) * NCI-C56393 * PHENYLETHANE * UN 1175 (DOT) *

TOXICITY HAZARDS

RTECS NO: DA0700000

BENZENE, ETHYL-
IRRITATION DATA

SKN-RBT 15 MG/24H OPEN MLD
EYE-RBT 100 MG

AIHAAP 23,95,62
AJOPAA 29,1363,46

TOXICITY DATA

ORL-RAT LD50: 3500 MG/KG
IPR-MUS LD50: 2272 MG/KG
SKN-RBT LD50: 17800 MG/KG

AMIHAB 14,387,56
ARTOON 58,106,85
FCTXAV 13,803,75

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH ILV-TWA 100 PPM; STEL 125 PPM 85INAB 5,244,86
MSHA STANDARD-AIR: TWA 100 PPM (435 MG/M3) DTLVS* 3,104,71
OSHA PEL: 8H TWA 100 PPM (435 MG/M3) FEREAC 54,2923,89
OSHA PEL FINAL: 8H TWA 100 PPM (435 MG/M3); STEL 125 PPM (545 MG/M3)
FEREAC 54,2923,89
NOHS 1974: HZD 31830; NIS 64; TNF 7190; NOS 55; TNE 57442
NOES 1983: HZD 31830; NIS 104; TNF 12827; NOS 67; TNE 133317; TFE
28613

EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE FEREAC
47,26992,82
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0680-0345; 8EHQ-1080-0368
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1990
NIOSH ANALYTICAL METHODS: SEE HYDROCARBONS, AROMATIC, 1501
NTP CARCINOGENESIS STUDIES; ON TEST (TWO YEAR STUDIES), JULY 1990
NTP CARCINOGENESIS STUDIES; TEST COMPLETED (PEER REVIEW), JULY 1990

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)
BEHAVIORAL (SLEEP)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX)
EFFECTS ON FERTILITY (LITTER SIZE)

CONTINUED ON NEXT PAGE

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CAS #: 100-41-4
MF: C8H10

NAME: ETHYLBENZENE, 99%

----- TOXICITY HAZARDS -----

EFFECTS ON FERTILITY (ABORTION)
EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)

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.
CAUSES SKIN IRRITATION.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAN CAUSE CNS DEPRESSION.
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 SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

----- PHYSICAL DATA -----

BOILING PT: 136 C
MELTING PT: -95 C
SPECIFIC GRAVITY: 0.867
VAPOR DENSITY: 3.7
VAPOR PRESSURE: 10 MM @ 20 C
19 MM @ 37.7 C

APPEARANCE AND ODOR
COLORLESS LIQUID

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

FLASHPOINT: 72 F
AUTOIGNITION TEMPERATURE: 810 F

CONTINUED ON NEXT PAGE

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

LOWER EXPLOSION LEVEL: 1%
UPPER EXPLOSION LEVEL: 6.7%

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER 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.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

WARNING:

FLAMMABLE LIQUID.

UNUSUAL FIRE AND EXPLOSION HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

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

INCOMPATIBILITIES

OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

USE NONSPARKING TOOLS.

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.

WASTE DISPOSAL METHOD

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 LAWS.

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

CHEMICAL SAFETY GOGGLES.

CONTINUED ON NEXT PAGE

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

SAFETY SHOWER AND EYE BATH.
RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
MECHANICAL EXHAUST REQUIRED.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
DO NOT BREATHE VAPOR.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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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