



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

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 #: 15243-9
CAS #: 84-74-2
MF: C16H22O4

NAME: DIBUTYL PHTHALATE, 99%

SYNONYMS

O-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER * BENZENE-O-DICARBOXYLIC ACID DI-N-BUTYL ESTER * DI-N-BUTYLESTER KYSELINY FTALOVE (CZECH) * CELLUFLEX DPB * DBP * DIBUTYL 1,2-BENZENEDICARBOXYLATE * DIBUTYL PHTHALATE * DI-N-BUTYL PHTHALATE * DIBUTYL PHTHALATE (ACGIH, OSHA) * ELAOL * HEXAPLAS M/B * PALATINOL C * POLYCIZER DBP * PX 104 * RCRA WASTE NUMBER U069 * STAFLEX DBP * WITCIZER 300 *

TOXICITY HAZARDS

RTECS NO: TI0875000

PHTHALIC ACID, DIBUTYL ESTER

TOXICITY DATA

ORL-RAT LD50: 8 GM/KG
IPR-RAT LD50: 3050 MG/KG
ORL-MUS LD50: 5289 MG/KG
IHL-MUS LC50: 25 GM/M3/2H
IPR-MUS LD50: 3570 MG/KG
IVN-MUS LD50: 720 MG/KG
ORL-GPG LD50: 10 GM/KG

FMCHA2 -,C98,89
JPMSAE 61,51,72
GTPZAB 17(11),51,73
85GMAT -,44,82
JSCCA5 28,667,77
KEKHB8 (3),19,73
GTPZAB 24(3),25,80

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 5 MG/M3 85INAB 5,176,86
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,30848,89
MSHA STANDARD-AIR: TWA 5 MG/M3 DTLVS* 3,75,71
OSHA PEL: 8H TWA 5 MG/M3 FEREAC 54,2923,89
OSHA PEL FINAL: 8H TWA 5 MG/M3 FEREAC 54,2923,89
NDHS 1974: HZD 80248; NIS 192; TNF 28100; NOS 114; TNE 258823
NOES 1983: HZD 80248; NIS 180; TNF 26462; NOS 122; TNE 424408; TFE 164584
EPA GENETOX PROGRAM 1988, NEGATIVE: S CEREVISIAE-REVERSION
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: IN VITRO SCE-NONHUMAN
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-0886-0620
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1990
NIOSH ANALYTICAL METHODS: SEE DIBUTYL PHTHALATE, 5020
NTP CARCINOGENESIS STUDIES; ON TEST (PRECHRONIC STUDIES), JULY 1990

TARGET ORGAN DATA

BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)

CONTINUED ON NEXT PAGE

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

GASTROINTESTINAL (NAUSEA OR VOMITING)
KIDNEY, URETER, BLADDER (OTHER CHANGES)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
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

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES EYE AND SKIN IRRITATION.
EXPOSURE CAN CAUSE:
NAUSEA, DIZZINESS AND HEADACHE

CHRONIC EFFECTS

OVEREXPOSURE MAY CAUSE REPRODUCTIVE DISORDER(S) BASED ON TESTS WITH
LABORATORY ANIMALS.

TARGET ORGAN(S):

KIDNEYS
CENTRAL NERVOUS SYSTEM
EYES
MALE REPRODUCTIVE SYSTEM

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.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

BOILING PT: 340 C
MELTING PT: -35 C
SPECIFIC GRAVITY: 1.043

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

VAPOR DENSITY: 9.6
VAPOR PRESSURE: 1 MM @ 147 C
APPEARANCE AND ODOR
VISCOSUS COLORLESS LIQUID

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

FLASHPOINT: 340 F
AUTOIGNITION TEMPERATURE: 734 F
LOWER EXPLOSION LEVEL: .47% @ 236 C

EXTINGUISHING MEDIA
WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
FOAM AND WATER SPRAY ARE EFFECTIVE BUT MAY CAUSE FROTHING.

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.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

INCOMPATIBILITIES
OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
ACIDS
CARBON MONOXIDE, CARBON DIOXIDE

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.
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.

WASTE DISPOSAL METHOD

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

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

OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

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

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.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

POSSIBLE TERATOGEN.

IRRITANT.

HARMFUL VAPOR.

KEEP TIGHTLY CLOSED.

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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