

PAGE

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SHEET

UNIVERSITY OF WISCONSIN WHITEWATER

P O BOX 296 WHITEWATER WI

53190-0296

MATERIAL

E 05/28/96 CUST#: 523216 PO#: UNF64115

SAFETY DATA

SECTION 1. -

CATALOG #: NAME:

30872-2

BENZĒNĒ-D6, 99.6 ATOM % D (1PK=5 X 0.5ML)

- CHEMICAL IDENTIFICATION-

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

CAS #: MF: C6D6 1076-43-3

214-061-8 EC NO:

- - HAZARDS IDENTIFICATION -SECTION 3. - - -

LABEL PRECAUTIONARY STATEMENTS FLAMMABLE (USA DEFINITION) HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

TOXIC

MAY CAUSE CANCER.

TOXIC: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

DANGER: CONTAINS BENZENE, CANCER HAZARD.

MUTAGEN.

CAUSES SEVERE EYE IRRITATION.

TARGET ORGAN(S):

BLOOD BONE MARROW

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
HYGROSCOPIC STORE UNDER MINDOCKEY

STORE UNDER NITROGEN.

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

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. 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.

- FIRE FIGHTING MEASURES -SECTION 5. - - -

## CONTINUED ON NEXT PAGE

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SHEET MATERIAL SAFETY DATA

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30872-2 BENZĒNĒ-D6, 99.6 ATOM % D (1PK=5 X 0.5ML)

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.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS DANGER:

EXTREMELY FLAMMABLE VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK. CONTAINER EXPLOSION MAY OCCUR 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. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

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

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CIGLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING. SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
USE NONSPARKING TOOLS.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CARCINOGEN CHEMICAL-RESISTANT

CARCINOGEN. TOXIC

SEVERE EYE IRRITANT.

MUTAGEN.

KEEP TIGHTLY CLOSED. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

HYGROSCOPIC

## CONTINUED ON NEXT PAGE

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SAFETY DATA SHEET MATERIAL

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BENZENE-D6, 99.6 ATOM % D (1PK=5 X 0.5ML)

STORE UNDER NITROGEN.

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

APPEARANCE AND ODOR COLORLESS LIQUID

PHYSICAL PROPERTIES

BOILING POINT: MELTING POINT:

79.1 C 6.8 C

FLASHPOINT

12 F 11C

SPECIFIC GRAVITY:

0.950

- - STABILITY AND REACTIVITY . SECTION 10. - -

INCOMPATIBILITIES OXIDIZING AGENTS

PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

- - TOXICOLOGICAL INFORMATION -SECTION 11. - - -

ACUTE EFFECTS CUTE EFFECTS
DANGER: CONTAINS BENZENE, CANCER HAZARD.
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
EXPOSURE CAN CAUSE:
NAUSEA, DIZZINESS AND HEADACHE
NARCOTIC EFFECT

CHRONIC EFFECTS CARCINOGEN. BLOOD EFFECTS
MAY ALTER GENETIC MATERIAL.
TARGET ORGAN(S): BLOOD BONE MARROW EYES

ADDITIONAL INFORMATION INHALATION OF HIGH CONCENTRATIONS OF BENZENE MAY HAVE AN INITIAL STIMULATORY EFFECT ON THE CENTRAL NERVOUS SYSTEM CHARACTERIZED BY

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SAFETY PAGE SHEET DATA MATERIAL 30872-2 BENZENE-D6, 99.6 ATOM % D (1PK=5 X 0.5ML) EXHILARATION, NERVOUS EXCITATION AND/OR GIDDINESS, DEPRESSION, DROWSINESS, OR FATIGUE. THE VICTIM MAY EXPERIENCE TIGHTNESS IN THE CHEST, BREATHLESSNESS AND LOSS OF CONSCIOUSNESS. TREMORS, CONVULSIONS AND DEATH DUE TO RESPIRATORY PARALYSIS OR CIRCULATORY COLLAPSE CAN OCCUR IN A FEW MINUTES TO SEVERAL HOURS FOLLOWING SEVERE EXPOSURES. ASPIRATION OF SMALL AMOUNTS OF LIQUID IMMEDIATELY CAUSES PULMONARY EDEMA AND HEMORRHAGE OF PULMONARY TISSUE. DIRECT SKIN CONTACT MAY CAUSE ERYTHEMA. REPEATED OR PROLONGED SKIN CONTACT MAY RESULT IN DRYING, SCALING DERMATITIS OR DEVELOPMENT OF SECONDARY SKIN INFECTIONS. THE CHIEF TARGET ORGAN IS THE HEMATOPOIETIC SYSTEM. BLEEDING FROM THE NOSE, GUMS OR MUCOUS MEMBRANES AND THE DEVELOPMENT OF PURPURIC SPOTS, PANCYTOPENIA, LEUKOPENIA, THROMBOCYTOPENIA, APLASTIC ANEMIA AND LEUKEMIA MAY OCCUR AS THE CONDITION PROGRESSES. THE BONE MARROW MAY APPEAR NORMAL, APLASTIC OR HYPERPLASTIC, AND MAY NOT CORRELATE WITH PERIPHERAL BLOOD-FORMING TISSUES. THE ONSET OF EFFECTS OF PROLONGED BENZENE EXPOSURE MAY BE DELAYED FOR MANY MONTHS OR YEARS AFTER THE ACTUAL EXPOSURE HAS CEASED. - - ECOLOGICAL INFORMATION -SECTION 12. - - -DATA NOT YET AVAILABLE. - - - - DISPOSAL CONSIDERATIONS - - -SECTION 13. - -BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. SECTION 14. - - - - - - TRANSPORT INFORMATION - - -CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION. - REGULATORY INFORMATION -SECTION 15. - - - -EUROPEAN INFORMATION HIGHLY FLAMMABLE MAY CAUSE CANCER.

R 48/23/24/25
TOXIC: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. HIGHLY FLAMMABLE KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

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IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SIMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). SEEK MEDICAL ADVICE

TLV AND SOURCE FOR BENZENE:

ACGIH TLV-TWA: 10 PPM. OSHA PEL: 8H TWA 1 PPM; STEL: 5 PPM (15 MIN.).

- - - OTHER INFORMATION-

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