

DR-0002-5310

HEXACHLOROBENZENE

REPT A

THIS INFORMATION APPLIES TO THE STATED MATERIAL AND MAY NOT
APPLY TO DILUTIONS OR FORMULATIONS OF THE MATERIAL.

SYNONYMS: BENZENE, HEXACHLORO-
PERCHLOROBENZENE
HCB

CAS NUMBER: 0000118-74-1

APPEARANCE: WHITE NEEDLES

EXPOSURE GUIDELINES

HEXACHLOROBENZENE: DOW BIOLOGICAL LIMIT GUIDE IS 150 PPB IN THE BLOOD.
THERE IS NO GUIDELINE FOR AIRBORNE CONCENTRATIONS.

----- POTENTIAL HEALTH EFFECTS ----- REVISED: 04/29/88

THIS SECTION INCLUDES POSSIBLE ADVERSE EFFECTS WHICH COULD OCCUR IF
THIS MATERIAL IS NOT HANDLED IN THE RECOMMENDED MANNER.

EYE

- ESSENTIALLY NONIRRITATING TO EYES.

SKIN

- ESSENTIALLY NONIRRITATING TO SKIN.
- A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING
ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS.
- THE LD50 FOR SKIN ABSORPTION IN RABBITS IS >2000 MG/KG.
- REPEATED SKIN CONTACT PRESENTS A HAZARD DUE TO ACCUMULATION OF HCB IN THE
BODY.

INGESTION

- SINGLE DOSE ORAL TOXICITY IS LOW.
- THE ORAL LD50 FOR RATS IS 3500 MG/KG.
- ALTHOUGH SINGLE-DOSE ORAL TOXICITY IS LOW, INGESTION OF SMALL AMOUNTS
PRESENTS A HAZARD DUE TO ACCUMULATION OF HCB IN THE BODY.

ACUTE INHALATION EFFECTS

- VAPORS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES.
- EXPOSURE TO DUSTS MAY CONTRIBUTE TO THE ACCUMULATION OF HCB IN THE BODY.

SUBCHRONIC EFFECTS

- EXCESSIVE EXPOSURE MAY CAUSE NEUROLOGIC SIGNS AND SYMPTOMS.
- REPEATED EXCESSIVE EXPOSURES MAY CAUSE ALTERED BLOOD/BILE PIGMENT
METABOLISM (PORPHYRIA) AND LIVER, KIDNEY, SKIN, NERVOUS, SKELETAL,
MUSCULAR AND IMMUNE SYSTEM EFFECTS.

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CHRONIC EFFECTS / CARCINOGENICITY

- HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.
- FOR HAZARD COMMUNICATION PURPOSES UNDER OSHA STANDARD 29 CFR PART 1910.1200, THIS CHEMICAL IS LISTED AS A POTENTIAL CARCINOGEN BY NTP AND IARC.

TERATOGENIC EFFECTS.

- HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS ONLY AT DOSES TOXIC TO THE MOTHER.
- HAS BEEN TOXIC TO THE FETUS IN LABORATORY ANIMALS AT DOSES NONTXIC TO THE MOTHER.
- TOXICITY TO THE NEONATE BUT NOT BIRTH DEFECTS HAVE OCCURRED IN OFFSPRING OF HUMANS KNOWN TO HAVE INGESTED TOXIC AMOUNTS OF HEXACHLOROBENZENE.

REPRODUCTIVE EFFECTS

- IN ANIMAL STUDIES, HAS BEEN SHOWN TO INTERFERE WITH REPRODUCTION .
- HCB IS BIOCONCENTRATED IN BODY FAT AND IS TRANSFERRED TO THE FETUS VIA THE PLACENTA AND TO THE NEONATE VIA LACTATION.

MUTAGENICITY

- RESULTS OF IN VITRO ('TEST TUBE') MUTAGENICITY TESTS HAVE BEEN NEGATIVE.
- RESULTS OF MUTAGENICITY TESTS IN ANIMALS HAVE BEEN NEGATIVE.

----- EMERGENCY TREATMENT AND MEDICAL NOTES ----- REVISED:02/24/88

EYE

- IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.

SKIN

- WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION

- INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED. CONSULT MEDICAL PERSONNEL.

INHALATION

- REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

NOTES TO PHYSICIAN

- INDIVIDUALS WITH CHRONIC OR LONG TIME EXPOSURE TO HEXACHLOROBENZENE SHOULD RECEIVE BIOLOGICAL MONITORING OF BLOOD LEVELS.
- NO SPECIFIC ANTIDOTE.
- SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.
- REPEATED EXCESSIVE EXPOSURE MAY AGGRAVATE FREEXISTING LIVER AND KIDNEY DISEASE.

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POTENTIAL HEALTH EFFECTS AND MEDICAL INFORMATION
HEALTH & ENVIRONMENTAL SCIENCES T.I.M.E. SYSTEM

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END OF REPORT; FOR ADDITIONAL INFORMATION CONTACT:
CHEMICAL HAZARD EVALUATION & COMMUNICATION
HEALTH & ENVIRONMENTAL SCIENCES
1803 BUILDING, MIDLAND, MI 48674
PHONE (517) 636-1909

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