

MSDS MATERIAL SAFETY DATA SHEET

Oakwood Products, Inc
1741 Old Dunbar Road
West Columbia, SC 29172
www.oakwoodchemical.com

Phone Numbers:

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

MATERIAL IDENTIFICATION

NAME: Hexachloro-1,3-butadiene
CAS#: [87-68-3]
CAT#: 3639
For R&D use only.

HEALTH HAZARD INFORMATION

TOXIC HARMFUL

Harmful to skin, eyes, and respiratory system.
May be toxic if inhaled or swallowed.
Avoid prolonged exposure.
Do not breathe vapor.
Use caution when handling.
Exposure to any chemical should be limited.
To the best of our knowledge, the health hazards of this material have not been fully investigated.
Material is for research and development purposes only.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid all direct contact with product.

Wear protective safety goggles.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
Ensure ventilation during use.
After contact with skin, wash immediately.

FIRST AID

EYE CONTACT: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.

SKIN CONTACT: After contact with skin, wash with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Wash any contaminated clothing before reusing.

INHALATION: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

INGESTION: Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE MEASURES

Extinguishing media: carbon dioxide, dry chemical powder, alcohol or polymer foam.
Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosion hazards/decomposition of product: emits toxic fumes under fire conditions.

HANDLING AND STORAGE INFORMATION

**TOXIC
HARMFUL
AVOID PROLONGED USE
AVOID ALL DIRECT CONTACT WITH MATERIAL
Wash thoroughly after handling.**
Do not breathe dust or vapor.
Have safety shower and eye wash available.
Do not get in eyes, on skin, on clothing.
Keep container tightly closed.
Store in a cool, dry, well-ventilated area.
Ensure adequate ventilation during use.
Use only in a chemical fume hood.
Avoid sources of ignition.

ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Wear appropriate respirator, rubber boots and heavy rubber gloves. Scoop up and place in an appropriate container. Ventilate area and wash spill site after pickup is complete. Wash skin immediately with plenty of water. Absorb on sand or vermiculite and place in closed containers for disposal.

DISPOSAL INFORMATION

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear, colorless liquid
MF: C₄Cl₆
MW: 260.76
BP: 210-220°C
MP: -22 to -19°C
DEN: 1.665
N_d²⁰: 1.5550
FP: no data

REACTIVITY DATA

INCOMPATIBILITIES: strong oxidizing agents, strong acids, and strong bases.
HAZARDOUS DECOMPOSITION PRODUCTS: may evolve carbon monoxide, carbon dioxide, and hydrogen chloride.

TOXICITY INFORMATION

ACUTE EFFECTS:

Toxic

Harmful

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

RTECS: EJ0700000

ACUTE TOXICITY:ACUTE EFFECTS:

Damage to the liver.

Damage to the kidneys

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

May be fatal if inhaled, swallowed, or absorbed through skin.

CHRONIC EFFECTS

Target organ(s):

Damage to the liver

Damage to the kidneys

Carcinogen.

RTECS: EJ0700000

IRRITATION DATA:

SKN-RBT 810 MG/24H MOD EJTXAZ 9,171,1976

SKN-RBT 500 MG/24H MLD 85JCAE -,116,1986

EYE-RBT 162 MG MLD EJTXAZ 9,171,1976

EYE-RBT 500 MG/24H MLD 85JCAE -,116,1986

TOXICITY DATA:

ORL-RAT LD50: 82 MG/KG GISAAA 37(2),32,1972

IPR-RAT LD50: 175 MG/KG EJTXAZ 8,180,1975

ORL-MUS LD50: 87 MG/KG GISAAA 28(2),9,1963

IHL-MUS LC50: 370 MG/M3 GISAAA 37(2),32,1972

SKN-MUS LD50: 150 MG/KG GISAAA 37(2),32,1972

IPR-MUS LD50: 76 MG/KG EJTXAZ 7,247,1974

ORL-CAT LD50: 187 MG/KG GISAAA 37(2),32,1972

SKN-RBT LD50: 100 MG/KG GISAAA 37(2),32,1972

ORL-GPG LD50: 90 MG/KG GISAAA 28(2),9,1963

ORL-HAM LD50: 960 MG/KG TXAPA9 48,A192,1979

IHL-MAM LC50: 370 MG/M3 GISAAA 55(5),72,1990

UNR-MAM LD50: 200 MG/KG 30ZDA9 -,40,1971

TARGET ORGAN DATA:
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (IRRITABILITY)
PATERNAL EFFECTS (SPERMATOGENESIS)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
effects on embryo or fetus (fetotoxicity)
specific developmental abnormalities (central nervous system)
effects on newborn (weaning or lactation index)
effects on newborn (growth statistics)
effects on newborn (biochemical and metabolic)
only selected registry of toxic effects of chemical substances
(RTECS) data is presented here. See actual entry in RTECS for
complete information.

To the best of our knowledge, the toxicological properties of this product have not been fully determined.

TRANSPORT INFORMATION

DOT

Hexachlorobutadiene
6.1
UN2279 III
Reportable Quantity (RQ): 1 lbs

IMDG

Hexachlorobutadiene
6.1
UN2279 III
EMS-No: F-A, S-A
Marine Pollutant: Yes

IATA

Hexachlorobutadiene
6.1
UN2279 III

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.

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Hexachloro-1,3-butadiene
August 23, 2011
