



HEXACHLORO BENZENE CAS NO 118-74-1

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifiers

Product name Hexachloro Benzene

CAS-No. : 118-74-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

Details of the supplier of the safety data sheet 1.3

> Company Central Drug House (P) Ltd

> > 7/28 Vardaan House New Delhi -110002

INDIA

+91 11 49404040 Telephone

Email care@cdhfinechemical.com

1.4 **Emergency telephone number**

> : +91 11 49404040 (9:00am - 6:00 pm) [Office hours] Emergency Phone #

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

Classification according to Regulation (EC) No 1272/2008

Carcinogenicity (Category 1B), H350

Specific target organ toxicity - repeated exposure (Category 1), H372

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

Hazard statement(s)

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Danger

Precautionary statement(s)

P201 Obtain special instructions before use. P273 Avoid release to the environment.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard

none

Statements

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Photosensitizer.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : HCB

Formula : C_6Cl_6

Molecular weight : 284.78 g/mol CAS-No. : 118-74-1 EC-No. : 204-273-9 Index-No. : 602-065-00-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

Hexachlorobenzene

CAS-No. 118-74-1 Carc. 1B; STOT RE 1; Aquatic <= 100 %

EC-No. 204-273-9 Acute 1; Aquatic Chronic 1; Index- 602-065-00-6 H350, H372, H400, H410 No. M-Factor - Aquatic Acute: 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible solids, toxic

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

p) Auto-ignition temperature

9.1 Information on basic physical and chemical properties

p. oper		
a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 227 - 229 °C - lit.
f)	Initial boiling point and boiling range	323 - 326 °C - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	No data available
	explosive limits	
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available

No data available

q) Decomposition No data available

temperature

r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 10,000 mg/kg(Hexachlorobenzene)

LD50 Oral - Mouse - 4,000 mg/kg(Hexachlorobenzene)

LD50 Oral - Cat - 1,700 mg/kg(Hexachlorobenzene)

LD50 Oral - Rabbit - 2,600 mg/kg(Hexachlorobenzene)

LD50 Oral - Guinea pig - > 3,000 mg/kg(Hexachlorobenzene)

LD50 Oral - Quail - > 6,400 mg/kg(Hexachlorobenzene)

LD50 Oral - Mammal - > 5,000 mg/kg(Hexachlorobenzene)

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Change in motor activity (specific assay).

LC50 Inhalation - Rat - 3,600 mg/m3(Hexachlorobenzene)

LC50 Inhalation - Mouse - 4,000 mg/m3(Hexachlorobenzene)

LC50 Inhalation - Cat - 1,600 mg/m3(Hexachlorobenzene)

LC50 Inhalation - Rabbit - 1,800 mg/m3(Hexachlorobenzene)

Skin corrosion/irritation

No data available(Hexachlorobenzene)

Serious eye damage/eye irritation

No data available(Hexachlorobenzene)

Respiratory or skin sensitisation

Causes photosensitivity. Exposure to light can result in allergic reaction sunburnlike responses to edematous, vesiculated lesions, or bullae(Hexachlorobenzene)

Germ cell mutagenicity

No data available(Hexachlorobenzene)

Carcinogenicity

This product is or contains a component that has been reported to be proba EPA classification.(Hexachlorobenzene)

Possible human carcinogen(Hexachlorobenzene)

(Hexachlorobenzene)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Hexachlorobenzene)

Reproductive toxicity

No data available(Hexachlorobenzene)

Specific target organ toxicity - single exposure

No data available(Hexachlorobenzene)

Specific target organ toxicity - repeated exposure

Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available(Hexachlorobenzene)

Additional Information

RTECS: DA2975000

Liver - (Hexachlorobenzene)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 7.6 mg/l - 96.0 h(Hexachlorobenzene)

NOEC - Pimephales promelas (fathead minnow) - > 0.0048 mg/l - 96.0

h(Hexachlorobenzene)

Toxicity to daphnia and

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - > 0.005 mg/l - 48

h(Hexachlorobenzene)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 32 d

- 0.0003 mg/l(Hexachlorobenzene)

Bioconcentration factor (BCF): 22,000

12.4 Mobility in soil

No data available(Hexachlorobenzene)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 2729 IMDG: 2729 IATA: 2729

14.2 UN proper shipping name

ADR/RID: HEXACHLOROBENZENE IMDG: **HEXACHLOROBENZENE** IATA: **HEXACHLOROBENZENE**

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H350 May cause cancer.

Causes damage to organs through prolonged or repeated exposure. H372

Very toxic to aquatic life. H400

H410 Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.