



# Alpha Chemika

ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

## MATERIAL SAFETY DATA SHEET

Savgan Heights : 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA



## MSDS

## Section 1 - Chemical Product and Company Identification

### Product Name : HEXACHLORO BENZENE

**Synonyms :** Perchloroethane

**CAS No.:** 118-74-1

**Molecular Weight :** 284.78

**Chemical Formula:** C<sub>6</sub>Cl<sub>6</sub>

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hexachloro Benzene	118-74-1	98-100%	No

## Section 3 - Hazardous Identification

### Risk advice to man and the environment

May cause cancer. Also toxic: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 4 - 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. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

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

## Section 5 - Fire Fighting Measures

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

### 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.

### Methods for cleaning up

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

## Section 7 - Handling and Storage

### Handling

Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

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

## Section 8 - Exposure Controls, Personal Protection

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Section 9 - Physical and Chemical Properties

### **Appearance**

Form powder

Colour white

### **Safety data**

pH no data available Melting

point 227 - 229 °C Boiling

point 323 - 326 °C Flash

point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

## Section 10 - Stability and Reactivity

### **Storage stability**

Stable under recommended storage conditions.

### **Materials to avoid**

Strong oxidizing agents

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

## Section 11 - Toxicological Information

### **Acute toxicity**

LD50 Oral - rat - 10.000 mg/kg

LD50 Oral - mouse - 4.000 mg/kg

LD50 Oral - cat - 1.700 mg/kg

LD50 Oral - rabbit - 2.600 mg/kg

LD50 Oral - guinea pig - > 3.000 mg/kg

LD50 Oral - Quail - > 6.400 mg/kg

LD50 Oral - Mammal - > 5.000 mg/kg

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

LC50 Inhalation - rat - 3.600 mg/m<sup>3</sup>

LC50 Inhalation - mouse - 4.000 mg/m<sup>3</sup>

LC50 Inhalation - cat - 1.600 mg/m<sup>3</sup>

LC50 Inhalation - rabbit - 1.800 mg/m<sup>3</sup>

### **Irritation and corrosion**

no data available

### **Sensitisation**

Skin sensitization

Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

### **Chronic exposure**

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

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

### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Ingestion** Toxic if swallowed.

**Target Organs** Liver,

## Section 12 - Ecological Information

### Elimination information (persistence and degradability)

Bioaccumulation Pimephales promelas (fathead minnow) - 32 d

Bioconcentration factor (BCF): 22.000

### Ecotoxicity effects

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 7,6 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - > 0,0048 mg/l - 96 h

Toxicity to daphnia  
and other aquatic  
invertebrates.

Immobilization EC50 - Daphnia magna (Water flea) - > 0,005 mg/l - 48 h

### Further information on ecology

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 13 - Disposal Considerations

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

### ADR/RID

UN-Number: 2729 Class: 6.1 Packing group: III

Proper shipping name: HEXACHLOROBENZENE

### IMDG

UN-Number: 2729 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: HEXACHLOROBENZENE

Marine pollutant: No

### IATA

UN-Number: 2729 Class: 6.1 Packing group: III

Proper shipping name: Hexachlorobenzene

## Section 15 - Regulatory Information

### Labelling according to EC Directives

EC Label

Hazard symbols

T Toxic

N Dangerous for the environment

R-phrase(s)

R45 May cause cancer.

R48/25 Also toxic: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Restricted to professional users.

## **Section 16 - Additional Information**

**Not Regulated**