

## Chemical Safety Data Sheet MSDS / SDS

## HEPTACHLOR

Revision Date:2026-05-31 Revision Number:1

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

## Product identifier

Product name : HEPTACHLOR  
CBnumber : CB3246285  
CAS : 76-44-8  
EINECS Number : 200-962-3  
Synonyms : Heptachlor,hepta

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

## Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## Hazard statements

H351 Suspected of causing cancer  
H373 May cause damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long lasting effects

## SECTION 3: Composition/information on ingredients

### Substance

|              |                    |
|--------------|--------------------|
| Product name | : HEPTACHLOR       |
| Synonyms     | : Heptachlor,hepta |
| CAS          | : 76-44-8          |
| EC number    | : 200-962-3        |
| MF           | : C10H5Cl7         |
| MW           | : 373.32           |

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## SECTION 4: First aid measures

### First Aid Measures

#### General advice

Consult a physician if necessary. Remove to fresh air.

#### Eye contact

Wash with plenty of water.

#### Skin Contact

Wash skin with soap and water.

#### Inhalation

Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration

#### Ingestion

Never give anything by mouth to an unconscious person. Clean mouth with water.

### Most important symptoms and effects, both acute and delayed

#### Symptoms

No information available.

### Indication of any immediate medical attention and special treatment needed

#### Note to physicians

Treat symptomatically.

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## SECTION 5: Firefighting measures

### Suitable Extinguishing Media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

No information available.

### Specific hazards arising from the chemical

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

#### **Hazardous combustion products**

Carbon oxides. Phosgene.

#### **Explosion data**

#### **Sensitivity to Mechanical Impact**

No information available.

#### **Sensitivity to Static Discharge**

No information available.

#### **Protective equipment and precautions for firefighters**

#### **Protective equipment and precautions for firefighters**

As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Ensure adequate ventilation, especially in confined areas.

#### **Environmental precautions**

#### **Environmental precautions**

See Section 12 for additional Ecological Information. Prevent product from entering drains.

Should not be released into the environment.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

#### **Advice on safe handling**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Noxious vapor/odor. Ensure adequate ventilation, especially in confined areas.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.

### Incompatible materials

None known based on information supplied.

## SECTION 8: Exposure controls/personal protection

### Control parameters

### Exposure Guidelines

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### Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

| Chemical name      | ACGIH TLV             | OSHA PEL                                                   | NIOSH IDLH                       |
|--------------------|-----------------------|------------------------------------------------------------|----------------------------------|
| Heptachlor 76-44-8 | TWA: 0.05 mg/m3<br>S* | TWA: 0.5 mg/m3 (vacated) TWA: 0.5 mg/m3 (vacated) S*<br>S* | IDLH: 35 mg/m3<br>TWA: 0.5 mg/m3 |

NIOSH IDLH Immediately Dangerous to Life or Health

### Appropriate engineering controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin and Body Protection

Wear protective gloves and protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

|                              |                           |
|------------------------------|---------------------------|
| Physical State               | Solid                     |
| Appearance                   | crystalline               |
| Odor                         | No information available  |
| pH                           | No information available  |
| Melting point/freezing point | No information available  |
| Boiling point                | 458.95°C (rough estimate) |
| Flash point                  | 11 °C                     |
| Liquid Density               | 1.8 g/cm3                 |

|                                 |                                                                                                                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Evaporation rate                | No information available                                                                                                                                                                                                                   |
| Upper flammability limits       | No information available                                                                                                                                                                                                                   |
| Lower flammability limit        | No information available                                                                                                                                                                                                                   |
| Vapor pressure                  | 0.0 mmHg                                                                                                                                                                                                                                   |
| Vapor density                   | No information available                                                                                                                                                                                                                   |
| Specific gravity                | No information available                                                                                                                                                                                                                   |
| Water solubility                | 0.056 mg l <sup>-1</sup> (25-29 °C)                                                                                                                                                                                                        |
| Solubility in other solvents    | No information available                                                                                                                                                                                                                   |
| Partition coefficient           | 5.47                                                                                                                                                                                                                                       |
| Autoignition temperature        | No information available                                                                                                                                                                                                                   |
| Decomposition temperature       | No information available                                                                                                                                                                                                                   |
| Kinematic viscosity             | No information available                                                                                                                                                                                                                   |
| Explosive properties            | No information available                                                                                                                                                                                                                   |
| Oxidizing properties            | No information available                                                                                                                                                                                                                   |
| Density and/or relative density | 1.6 g/cm <sup>3</sup>                                                                                                                                                                                                                      |
| Henry's Law Constant            | 0.19(x 10 <sup>-3</sup> atm·m <sup>3</sup> /mol) at 5 °C, 0.31 at 15 °C, 0.40 at 20 °C, 0.61 at 25 °C, 0.82 at 35 °C:in 3% NaCl solution: 0.52 at 5 °C, 0.82 at 15 °C, 1.33 at 25 °C, 2.09 at 35 °C (gas stripping-GC, Cetin et al., 2006) |

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides. Phosgene.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

#### Inhalation

Classified based on available data. For more details, see section 2.

#### Eye contact

Classified based on available data. For more details, see section 2.

#### Skin Contact

Classified based on available data. For more details, see section 2.

#### Ingestion

Classified based on available data. For more details, see section 2.

### Information on toxicological effects

#### Symptoms

Classified based on available data. For more details, see section 2.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Chronic Toxicity

May cause adverse liver effects. Target Organ Effects Central nervous system, Liver. Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

#### Chemical name ACGIH IARC NTP OSHA

#### Heptachlor A3 Group

2A - X 76-44-8 Group 2B

### IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

#### Group

2B - Possibly Carcinogenic to Humans

### Numerical measures of toxicity - Product Information

#### Unknown acute toxicity

Classified based on available data. For more details, see section 2

The following values are calculated based on chapter 3.1 of the GHS document

#### ATEmix (oral)

40 mg/kg

#### ATEmix (dermal)

50 mg/kg

#### ATEmix (inhalation-dust/mist)

2 mg/l

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## SECTION 12: Ecological information

### Ecotoxicity

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### **Persistence and degradability**

No information available.

### **Bioaccumulation**

No information available.

### **Mobility**

No information available.

### **Heptachlor**

4.4 76-44-8

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## SECTION 13: Disposal considerations

### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Should not be released into the environment.

### **Contaminated packaging**

Do not reuse container.

### **California Hazardous Waste Status**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Heptachlor    | Toxic                             |

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## SECTION 14: Transport information

### **DOT**

#### **UN/ID no**

UN2811

#### **Hazard Class**

6.1

#### **Packing Group**

II

#### **Proper shipping name**

Toxic solids, organic, n.o.s. Reportable Quantity (RQ) (Heptachlor: RQ (kg)= 0.454)

#### **Description**

UN2811, Toxic solids, organic, n.o.s. (Heptachlor), 6.1, II Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT

**Emergency Response Guide Number**

154

**IMDG****UN/ID no**

UN2811

**Hazard Class**

6.1

**Packing Group**

II

**Proper shipping name**

Toxic solid, organic, n.o.s.

**Description**

UN2811, Toxic solid, organic, n.o.s. (Heptachlor), 6.1, II, Marine pollutant

**Special Provisions**

274

**EmS-No**

F-A, S-A Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

**IATA****UN/ID no**

UN2811

**Hazard Class**

6.1

**Packing Group**

II

**Proper shipping name**

Toxic solid, organic, n.o.s.

**Description**

UN2811, Toxic solid, organic, n.o.s. (Heptachlor), 6.1, II

**ERG Code**

6L

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## SECTION 15: Regulatory information

**International Inventories**

All of the components in the product are on the following Inventory lists

Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): ENCS (Japan): Philippines (PICCS)

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances



IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

| Chemical name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------|------|-----|------|--------|--------|------|-------|------|-------|------|
| Heptachlor    | -    | -   | -    | X      | -      | X    | -     | X    | X     | X    |

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

#### Acute health hazard

Yes

#### Chronic Health Hazard

Yes

#### Fire hazard

No

#### Sudden release of pressure hazard

No

#### Reactive hazard

No

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name      | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Heptachlor 76-44-8 | 1 lb                        | X                      | X                         | X                          |

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name        | California Proposition 65   |
|----------------------|-----------------------------|
| Heptachlor - 76-44-8 | Carcinogen<br>Developmental |

### U.S. State Right-to-Know Regulations

| Chemical name      | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| Heptachlor 76-44-8 | X          | X             | X            |

## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.