

Section 1. Product and Company Identification

Product Name Hexachloroethane
CAS Number 67-72-1

Parchem - fine & specialty chemicals
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Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2): H315

Eye irritation (Category 2A): H319

Carcinogenicity (Category 2): H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system: H335

Acute aquatic toxicity (Category 1): H400

Chronic aquatic toxicity (Category 1): H410

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.



- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear eye protection/face protection.
- P280: Wear protective gloves.
- P281: Use personal protective equipment as required.
- P302 + P352: If On Skin, Wash with plenty of soap and water.
- P304 + P340 + P312: If Inhaled, Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/ physician if you feel unwell.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313: If exposed or concerned, Get medical advice/attention.
- P332 + P313: If skin irritation occurs, Get medical advice/attention.
- P337 + P313: If eye irritation persists, Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P391: Collect spillage.
- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Hexachloroethane
Synonym(s) Perchloroethane
Formula C₂Cl₆
CAS Number 67-72-1

COMPONENT	CAS NUMBER	CONCENTRATION
Hexachloroethane	67-72-1	≤ 100%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

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

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



Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, Hydrogen chloride gas

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

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 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.

Reference to other sections: For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS-510): Non Combustible Solids

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Hexachloroethane	67-72-1	TWA	1.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)



	Remarks	Liver damage Kidney damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	1.000000 ppm 10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen Potential for dermal absorption		
		TWA	1.000000 ppm 10.000000 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m ³ is approximate.		

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: Safety glasses with side-shields conforming to EN166 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: Impervious clothing. 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 a full-face particle respirator type N100 (US) or type P3 (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).

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

Information on basic physical and chemical properties

Appearance: White crystalline

Odor: No data available

Odor Threshold: No data available

pH: No data available



Melting point/freezing point: Melting point/range: 183 - 185°C (361 - 365°F)

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: 0.5 hPa (0.4 mmHg) at 20.0°C (68.0°F)

Vapor density: No data available

Relative density: 2.091 g/mL at 25°C (77°F)

Water solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents, Strong bases

Hazardous decomposition products

Other decomposition products: No data available

In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral: Guinea pig - 4,970 mg/kg

TDLo Oral: Rat - female - 5,500 mg/kg

TDLo Oral: Rat - 6,944 mg/kg

Remarks: Liver: Changes in liver weight. Kidney, Ureter, Bladder; Changes in tubules (including acute renal failure, acute tubular necrosis). Kidney, Ureter, Bladder; Other changes.

TDLo Oral: Rat - 48,750 mg/kg

Remarks: Brain and Coverings: Other degenerative changes. Liver; Changes in liver weight. Kidney, Ureter, Bladder; Other changes.



TDLo Oral: Rabbit - 12,000 mg/kg

Remarks: Liver: Other changes. Kidney, Ureter, Bladder. Other changes; Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Inhalation: Behavioral: Muscle weakness.

LD50 Dermal: Rabbit - 32,000 mg/kg

LD50 Intraperitoneal: Mouse - 4,500 mg/kg

LDLO Intraperitoneal: Rat - 2,900 mg/kg

LDLO Intravenous: Dog - 325 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity

Hamster: Ovary; Sister chromatid exchange

Carcinogenicity: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies

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

NTP: Reasonably anticipated to be a human carcinogen (Hexachloroethane)

OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

Additional Information

RTECS: KI4025000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

Toxicity

Toxicity to fish: NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 1.36 mg/l - 48 h



Persistence and degradability

Biodegradability Result: - Not biodegradable (OECD Test Guideline 301)

Bioaccumulative potential

Bioaccumulation: Lepomis macrochirus (Bluegill) - 28 d - 0.00617 mg/l

Bioconcentration factor (BCF): 139

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Hexachloroethane)

Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 3077

Class: 9

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S.
(Hexachloroethane)

Marine pollutant: yes

IATA

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Hexachloroethane)



Further information: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313: Hexachloroethane, CAS No. 67-72-1

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Hexachloroethane (CAS No. 67-72-1)

Pennsylvania Right to Know Components

Hexachloroethane (CAS No. 67-72-1)

New Jersey Right to Know Components

Hexachloroethane (CAS No. 67-72-1)

California Prop. 65 Components: Warning! This product contains a chemical known to the State of California to cause cancer. Hexachloroethane, CAS No. 67-72-1

HMIS Rating

Health hazard: 2*

Flammability: 0

Physical Hazard: 0

NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

Section 16. Other Information

Disclaimer: 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.

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