

# SAFETY DATA SHEET

## Hexachloroethane

# SDS

- According to GHS (Eighth Revised Edition)

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name	Hexachloroethane
Synonyms	-
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name  
Application Address  
Applicant Post Code  
Applicant Telephone  
Applicant Fax  
Applicant E-mail  
Supplier Name  
Supplier Address  
Supplier Post Code  
Supplier Telephone  
Supplier Fax  
Supplier E-mail

#### > Emergency Phone Number

Emergency Phone  
Number

### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

#### > GHS Hazard Class

Acute Toxicity – Oral Category 5

<b>Skin Corrosion/Irritation</b>	Category 2
<b>Eye Damage/Irritation</b>	Category 2A
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Category 3
<b>Carcinogenicity</b>	Category 2
<b>Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard</b>	Category 1
<b>Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard</b>	Category 1

### > GHS Label Elements

Pictogram



Signal Word

**Warning**

### > Hazard Statements

<b>H303</b>	May be harmful if swallowed
<b>H315</b>	Causes skin irritation
<b>H319</b>	Causes serious eye irritation
<b>H335</b>	May cause respiratory irritation
<b>H351</b>	Suspected of causing cancer
<b>H400</b>	Very toxic to aquatic life
<b>H410</b>	Very toxic to aquatic life with long lasting effects

### > Precautionary Statements

#### Prevention

<b>P203</b>	Obtain, read and follow all safety instructions before use.
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>P264</b>	Wash contact area thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Response

<b>P318</b>	IF exposed or concerned, get medical advice.
<b>P319</b>	Get medical help if you feel unwell.
<b>P321</b>	Specific treatment (see measures on this label).
<b>P391</b>	Collect spillage.
<b>P301+P317</b>	IF SWALLOWED: Get medical help.
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P332+P317</b>	If skin irritation occurs; Get medical help.

<b>P337+P317</b>	If eye irritation persists: Get medical help.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Storage</b>	
<b>P405</b>	Store locked up.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Hexachloroethane	99.89	67-72-1	200-666-4
Water	0.03	7732-18-5	231-791-2
Ash	0.03	-	-
Iron	0.013	-	-
Alcohol insoluble matter	0.037	-	-

### Section 4 First Aid Measures

#### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

#### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

### Section 5 Fire Fighting Measures

#### > Extinguishing Media

<b>Suitable Extinguishing Media</b>	Dry chemical, carbon dioxide or alcohol-resistant foam.
<b>Unsuitable</b>	Do not use a solid water stream as it may scatter or spread fire.

## Extinguishing Media

### > Specific Hazards Arising from the Substance or Mixture

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

### > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### > Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

### > Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

## Section 8 Exposure Controls/Personal Protection

### > Control Parameters

#### Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hexachloroethane 67-72-1	USA - OSHA	1	10 vapour	-	-
	South Korea	1	10	-	-
	Ireland	1	10	-	-
	Germany (AGS)	1	9.8	2	19.6
	Denmark	1	10	2	20
	Australia	1	9.7	-	-

#### Biological Limit Values

No information available

#### Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

### > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

### > Personal Protection Equipment

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

## Section 9 Physical and Chemical Properties

**Appearance:** White crystal powder

**Odor Threshold:** No information available

**Melting Point/Freezing Point (°C):** 187

**Flash Point (°C)( Closed Cup):** Not applicable

**Flammability:** No information available

**Vapor Pressure (KPa):** Not applicable

**Relative Density(Water=1):** 2.091 (20°C)

**n-Octanol/Water Partition Coefficient:** 4.14

**Odor:** No information available

**pH:** No information available

**Initial Boiling Point and Boiling Range (°C):** 183~185

**Evaporation Rate:** Not applicable

**Upper/lower explosive limits[%(v/v)]:** Upper limit: No information available; Lower limit: No information available

**Relative Vapour Density(Air = 1):** Not applicable

**Solubility:** Insoluble in water

**Auto-Ignition Temperature(°C):** No information

available

**Decomposition Temperature (°C):** No information available

**Kinematic Viscosity (mm<sup>2</sup>/s):** Not applicable

**Particle characteristics:** No information available

## Section 10 Stability and Reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
Hexachloroethane	67-72-1	4460mg/kg(Rat)	32000mg/kg(Rabbit)	No information available

### > Skin Corrosion/Irritation

Causes skin irritation(Category 2)

### > Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)

### > Skin Sensitization

No information available

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	67-72-1	Hexachloroethane	Category 2B	Not Listed

2	7732-18-5	Water	Not Listed	Not Listed
3	-	Ash	Not Listed	Not Listed
4	-	Iron	Not Listed	Not Listed
5	-	Alcohol insoluble matter	Not Listed	Not Listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

May cause respiratory irritation(Category 3)

> **STOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

No information available

## Section 12 Ecological Information

> **Acute Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
Hexachloroethane	67-72-1	LC <sub>50</sub> : 1.32mg/L (96h)(Fish)	EC <sub>50</sub> : 4.3mg/L (48h)	ErC <sub>50</sub> : 90.1mg/L (96h)

> **Chronic Aquatic Toxicity**

No information available

> **Others**

**Persistence and Degradability**

No information available

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

No information available

**Results of PBT and vPvB Assessment**

Hexachloroethane meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Water does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

## Section 13 Disposal Considerations

**Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated Packaging Disposal Recommendations**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

**Section 14 Transport Information****Transporting Label****Marine pollutant**

Yes

**UN Number**

3077

**UN Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Transport Hazard Class**

9

**Transport Subsidiary Hazard Class**

NONE

**Packing Group**

III

(Description: The graphic "fish and tree" is transport marking.)

**Section 15 Regulatory Information****> International Chemical Inventory**

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Hexachloroethane	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ash	✗	✗	✗	✗	✗	✗	✗	✗	✗
Iron	✗	✗	✗	✗	✗	✗	✗	✗	✗
Alcohol insoluble matter	✗	✗	✗	✗	✗	✗	✗	✗	✗

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

**Note**

"✓" Indicates that the substance included in the regulations

"✗" That no data or included in the regulations

**Section 16 Additional Information****Creation Date**

2021/08/13



**Revision Date** 2021/08/13

**Reason for Revision** -

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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