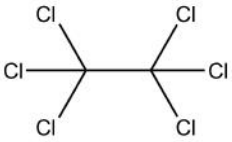
MATERIAL SAFETY DATA SHEET

Hexachloroethane

DAYU CHEMICAL
Dedication Around Your Utilizing

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

1.1 Product identifiers CCl_3CCl_3

Product name	Hexachloroethane
CAS number	67-72-1
Molecular formula	CCl_3CCl_3
Chemical structure	
Molecular weight	236.74
Appearance	White crystalline

1.2 Details of the supplier of the material safety data sheet

Company	SHAANXI DAYU CHEMICAL CO., LTD.
Address	Building NO.8, XiShi Jiajun, , XiShi 2nd Road, Lianhu District, Xi'an, Shaanxi, China
Telephone	0086-29-88643345
Email	info@dayuchemical.com
Website	www.hidayuchemical.com

SECTION 2: Composition/information on ingredients

Product name	Hexachloroethane
CAS number	67-72-1
Purity	≧ 99%

SECTION 3: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Skin irritation (Category 2), H315
Eye irritation (Category 2), 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

Classification according to EU Directives 67/548/EEC or 1999/45/EC Xn, N Harmful, Dangerous for the environment
Signal word Warning
Hazard statement(s)
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 statement(s)
P261 Avoid breathing dust.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements none

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

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.

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: Firefighting measures

Extinguishing media
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.

SECTION 6: Accidental release measures

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.

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.

SECTION 7: Handling and storage

Precautions for safe handling
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
Store in cool place. 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 parameter
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.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

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 Form: crystalline
Colour: white
Odour No data available
Odour Threshold No data available
pH No data available
Melting point/freezing point
Melting point/range: 183 - 185 °C
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

Vapour pressure 0,5 hPa at 20,0 °C
Vapour density No data available
Relative density 2,091 g/mL at 25 °C
Water solubility 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

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 sensitisation No data available

Germ cell mutagenicity
Hamster - ovary
Sister chromatid exchange

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

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

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
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.

Other adverse effects
Very toxic to aquatic life with long lasting effects.
No data available

SECTION 13: Disposal considerations

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 chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

UN number
ADR/RID: 3077
IMDG: 3077
IATA: 3077

UN proper shipping name
ADR/RID: Environmentally hazardous Substance, solid, N.O.S. (Hexachloroethane)
IMDG: Environmentally hazardous substance, solid, N.O.S. (Hexachloroethane)
IATA: Environmentally hazardous substance, solid, N.O.S. (Hexachloroethane)

Transport hazard class(es)
ADR/RID: 9
IMDG: 9
IATA: 9

Packaging group
ADR/RID: III
IMDG: III
IATA: III

Environmental hazards
ADR/RID: yes
IMDG Marine pollutant: yes
IATA: yes

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

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other 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. SHAANXI DAYU CHEMICAL CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product. Please see additional terms and conditions for reference.