



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

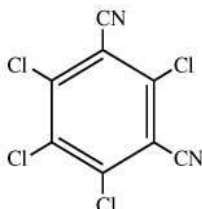
1. Chemical Product and company Identification

Product Name: Chlorothalonil 720G/L SC

Molecular Formula: C₈Cl₄N₂

Molecular Weight: 265.9

Structural Formula:



Chemical Name: 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile

CAS No.: 1897-45-6

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information On Ingredients

Composition	CAS No.	Content G/L
Chlorothalonil	1897-45-6	720.
Others ingredients		

3. Hazards Summarizing

Route of entry: Inhalation, skin and eye contact.

Symptoms of Acute Exposure: An extremely severe irritant to eyes. May causes severe skin irritation and contact dermatitis. Allergic skin reactions are possible.

Hazardous Decomposition Products : Can decompose at high temperatures forming toxic gases.

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. First Aid Measures

Skin: Remove contaminated clothes. Rinse and then wash skin with plenty of water immediately.

Eyes: Rinse eyes immediately with clean water for at least 15 minutes and

obtain medical aid.

Ingestion: If swallowed induce vomiting by tickling the back of throat. Be quiet and call a physician

Notes to physician: No specific antidote if ingested. Treat symptomatically.

5. Fire-Fighting Measures

Flash Point: Nonflammable.

Autoignition Temperature: Not applicable

Extinguishing media

To be used: Powder, water spray, foam, carbon dioxide.

Don't use: Not applicable

Particular risk: None

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: Prevent the contamination of the floor and the beds of water.

6. Accidental Release Measures

This product is toxic to fish. Keep out of lakes, streams or ponds. Stop leaks. Contain spill by diking. Remove as much as possible with a vacuum truck. Soak up small spills or residual material with inert absorbent material. Place in closed labeled containers and store in a safe place out of doors to await proper disposal. Flush area with large amounts of water. Persons performing this work should wear adequate personal protective equipment and clothing.

7. Handling and Storage

Handling: Handle the pesticide with gloves and wash the hand after handling. Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

8. Exposure Controls / Personal Protection

Respiratory: NIOSH-approved dust/mist filtering respirator.

Eye: Protective eyewear.

Gloves: Waterproof gloves.

Other Clothing and Equipment: Protective clothing consisting of long sleeve shirt, long pants, and shoes plus socks should be worn when handling this product. The clothing should be changed at least daily. Persons exposed routinely to the active material should shower prior to leaving work each day. Safety shower and eyewash stations should be provided in all areas in which this product is stored and/or handled.

Worker Protection Standard (40 CFR part 170)*

Restricted Entry Interval (REI): 48 hours

PPE for early entry: Coveralls, waterproof gloves, shoes plus socks and

protective eyewear.

9. Physical and Chemical Properties

Appearance: Liquid, light gray, slight odor

Boiling Point, 760 mm Hg: >100°C (lowest boiling component)

Freezing Point: -5°C

Specific Gravity (H₂O=1): 1.33

Vapor Pressure: 5.72×10^{-7} torr @ 25°C

Vapor Density (Air=1): Not Determined

Solubility in H₂O, % by Wt.:

Evaporation Rate (Butyl Acetate=1): Not Determined

PH: 6.5-8.5

10. Stability and Reactivity

Stability: Under normal use conditions, this product is stable.

Incompatibility (Materials to Avoid): Not know.

Hazardous Decomposition Products: May decompose under fire conditions emitting gases and vapors (i.e. hydrogen chloride) which may be toxic and irritating to the respiratory tract.

Conditions Contributing to Hazardous Polymerization: Material is not known to polymerize.

11. Toxicological Information

Acute oral LD₅₀: 9000mg/kg (rat)

Acute dermal LD₅₀: >2000mg/kg (rabbit)

Inhalation (rat) LC50: Not respirable. Aerosol could not be formed.

Primary Dermal Irritation Index: 0.6/8.0 (rabbit) - mild irritant

Primary Eye Irritation: Eye irritant (rabbit); reversible corneal, iridal and conjunctival effects; maximum mean score (24 hour) = 19.8/110

Dermal Sensitization (Guinea pig): Equivocal results were obtained in this study. It can be concluded that Chlorothalonil 720g/L is at most a weak sensitizing agent.

Inhalation: May cause irritation to the respiratory tract, but this is rarely observed.

Skin Contact: May cause skin irritation. May be a potential skin sensitizer.

Skin Absorption: Not readily absorbed through intact skin.

Eye Contact: Human experience indicates that this product may cause mild to severe irritation, depending on degree of exposure. No evidence of permanent damage has been found.

Ingestion: May cause irritation of the gastrointestinal tract following ingestion of large amounts.

12. Ecological Information

Effects on birds: Chlorothalonil is practically nontoxic to birds. The LD₅₀ in mallard ducks is 5000 mg/kg. Most avian wildlife are not significantly affected by this compound.

Effects on aquatic organisms: Chlorothalonil and its metabolites are highly toxic to fish, aquatic invertebrates, and marine organisms. Fish, such as rainbow trout, bluegill, and channel catfish are noticeably affected even when chlorothalonil levels are low (less than 1 mg/L). The LC₅₀ is 0.25 mg/L in rainbow trout, 0.3 mg/L in bluegills, and 0.43 mg/L in channel catfish. Chlorothalonil does not store in fatty tissues and is rapidly excreted from the body. Its bioaccumulation factor is quite low .

Effects on other organisms: The compound is nontoxic to bees.

13. Disposal Considerations

Disposal must be in accordance with applicable local regulations. Remove nonusable solid materials and/or contaminated soil for disposal in an approved and permitted landfill. Do not flush into surface water or sanitary sewer systems.

Spillage disposal: Do not wash away into sewer. Do not let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

14. Transport Information

Do not transport with food and feed stuff; Marine pollutant.

Class: 6.1

UN No.: 2902

Packing group III

15. Regulatory Information

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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

Use appropriate containment to avoid environmental contamination

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come

in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.