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## Material Safety Data Sheet

### Tetramisole Hydrochloride MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** Tetramisole hydrochloride

**CAS#:** 5086-74-8

**Synonym:** Tetramisole HCl;DL-Tetramisole HCl;

(+)-2,3,5,6-tetrahydro-6-phenylimidazo(2,1-b)thiazolemonohydrochloride;(+-)-anthelvet;1-b)thiazole,2,3,5,6-tetrahydro-6-phenyl-,monohydrochloride,(+-)-imidazo(;anthelvet;bayer9051;citarin;dl-6-phenyl-2,3,5,6-tetrahydroimidazole(2,1-b)thiazole-hydrochloride;dl-tetramisolehydrochloride

**Chemical Name:** Tetramisole hydrochloride

**Chemical Formula:** C<sub>11</sub>H<sub>13</sub>CIN<sub>2</sub>S

**Contact Information for Emergency:** (0086) 551 65418678

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#### Section 2: Composition and Information on Ingredients

##### Composition:

Name	CAS #	% by Weight
Tetramisole hydrochloride	5086-74-8	100

##### Toxicological Data on Ingredients:

Tetramisole hydrochloride: LD50: Not available. LC50: Not available.

#### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, brain. Repeated or prolonged exposure to the substance can produce target organs damage.

**Section 4: First Aid Measures**

**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Section 5: Fire and Explosion Data**

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Section 6: Accidental Release Measures**

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Provide ventilation.

**Section 7: Handling and Storage**

**Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:**

Keep containers tightly closed. Store in a cool, dry area away from incompatible substances.

**Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 5086-74-8: Personal Protective Equipment Eyes: Wear safety glasses and chemical goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Section 9: Physical and Chemical Properties**

**Physical State:** Crystals

**Color:** white

**Odor:** None reported.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 266.00 - 267.00 deg C

**Autoignition Temperature:** 500 deg C ( 932.00 deg F)

**Flash Point:** Not applicable.

**Explosion Limits, lower:** Not available.

**Explosion Limits, upper:** Not available.

**Decomposition Temperature:** Not available.

**Solubility in water:** 210 g/l (20 C)

**Specific Gravity/Density:** Not available.

**Molecular Formula:** C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>S.HCl

**Molecular Weight:** 240.76

**Section 10: Stability and Reactivity Data**

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, strong oxidants.

**Incompatibilities with Other Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Hydrogen chloride, nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

**Hazardous Polymerization:**

Has not been reported.

**Section 11: Toxicological Information**

**Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact. Ingestion.

**Toxicity to Animals:** LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** The substance is toxic to lungs, brain.

**Other Toxic Effects on Humans:** Not available.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

**Section 12: Ecological Information**

No information available.

**Section 13: Disposal Considerations**

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14: Transport Information**

**IATA**

Not regulated as a hazardous material.

**IMO**

Not regulated as a hazardous material.

**RID/ADR**

Not regulated as a hazardous material.

**Section 15: Other Regulatory Information**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 28B After contact with skin, wash immediately with plenty of water and soap.

S 38 In case of insufficient ventilation, wear suitable respiratory equipment.

WGK (Water Danger/Protection)

CAS# 5086-74-8: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 5086-74-8 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 5086-74-8 is not listed on the TSCA inventory.

It is for research and development use only.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/09/2009 06:31 PM

**Last Updated:** 05/21/2018 12:00 PM

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