

**AERCHEM INC.**  
**320 North Walnut**  
**Bloomington, IN 47404**

Tel: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

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**Effective Date:** 12/24/96

**Product Name:** Thiamine HCl

**Common Name:** Vitamin B1 HCl

**Chemical Formula:** C<sub>12</sub>H<sub>17</sub>CIN<sub>4</sub>OS HCl

**CAS No.:** 67-03-8

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**Hazardous Ingredients:**

Acute oral toxicity (LD50): 3710 mg/kg (rat)  
Very dangerous in case of eye contact (irritant)  
Slightly dangerous to dangerous in case of ingestion, of inhalation  
Very slightly to slightly dangerous in case of skin contact

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**Physical Data:**

Melting point (range) Approx.:	decomposes (248 C or 478.4 F)
Boiling point:	not available
Specific Gravity (Water=1):	not available
pH (depends on quality):	not available
Solubility in water:	easily soluble in cold water
Odor and appearance:	solid
Molecular Weight:	337.27

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**Fire and Explosion Information:**

Flash point:	not available
Special fire and explosions precautions:	none
Extinguishing media:	small fire: dry chemicals, CO <sub>2</sub> , water spray or foam large fire: water spray, fog or foam. Do not use water jet
Products of combustion:	Carbon oxides, nitrogen oxides, sulfur oxides, halogenated compounds

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**Reactivity Data:**      **Stable**   X                        **Unstable** \_\_\_\_\_

**Conditions to Avoid:**                      none  
**Hazardous Polymerization:**            None  
**Incompatibilities:**                        none  
**Hazardous Polymerization:**            Will not occur.

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**Special Protection Information:**

**A. Precautions and storage:**

**Leak/Spill Information:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Disposal Information:**

Recycle to process, if possible. Consult your local and regional authorities.

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**Precautions to be Taken:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

**Storage:**

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

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**Occupational Control Measures:**

**Ventilation Systems:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Use respirator when ventilation is inadequate.

**Skin Protection:** Lab coat.

**Eye Protection:** Splash goggles

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**First Aid:**

**Eyes:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

**Skin:** If chemical gets onto clothed portion of body, remove contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritations persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhalation:** Allow victim to rest in a well ventilated area. Seek immediate medical attention.

**Ingestion:** Remove dentures if any. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower head to vomit will not reenter mouth and throat. Never give unconscious person anything to ingest. Seek medical attention.

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**TRANSPORTATION:**

**DOT classificaton:** not regulated