

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

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 12/19/96
Product Name: Thiamine mononitrate
Common Name: Vitamin B1 mononitrate

Chemical Formula: C₁₂H₁₇N₅O₄S
CAS No.: 532-43-4

SECTION 2: HAZARDOUS INGREDIENTS:

Not available

Potential Acute Health Effects:

Slightly dangerous to dangerous in case of ingestion.
Very slightly to slightly dangerous in case of skin
contact (irritant), of eye contact (irritant), of
inhalation

SECTION 3: PHYSICAL DATA

Physical Data:

Appearance and Odor:	solid
Boiling point:(760 mm Hg)	not available
Vapor Pressure (mmHg):	not available
Specific Gravity (Water=1):	not available
Solubility in water:(by weight)	partially soluble in cold water
Melting Point:	decomposes (198 C or 388.4 F)
Volatility:	not available
Vapor Density:	not available

SECTION 4: FIRE AND EXPLOSION DATA

Fire and Explosion Information:

Flash point:	not available
Flammable limit:	not available
Extinguishing Media:	small fire - use dry chemicals, CO ₂ , water spray or foam; large fire - use water spray, fog or foam. Do not use water jet.
Unusual Fire and Explosion Hazards:	none

SECTION 5: REACTIVITY DATA

Reactivity Data:

Stable X Unstable

Conditions to Avoid:	none
Incompatibilities:	no information available
Decomposition or by-products:	carbon oxides, nitrogen oxides
Hazardous Polymerization:	no

SECTION 6: HEALTH HAZARD DATA

Permissible Exposure Limit: not available

Toxicity:

Oral LD50 (rat):

not available

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SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

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 the contaminated skin with running non-abrasive soap. Be particularly clean folds, crevices, creases and groin. the irritated skin with an emollient. If persists, seek medical attention. Wash contaminated clothing before reusing.

thoroughly wash
water and
careful to
Cover
irritations

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.

Spillage:

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 to local and regional authority requirements.

according

Disposal:

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

SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Precautions:

fire
material.

Keep away from heat. Keep away from sources of ignition. Empty containers pose a risk ,evaporate the residue under a fume hood. Ground all equipment containing
Do not breathe dust

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.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If use operations generate dust, fume or mist, use ventilation to keep exposure to airborne

contaminants below exposure limit.

Eye Protection: safety glasses

Protective Gloves:

Skin Protection: lab coat
