# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 06/26/2007 Print Date 09/27/2007

## 1. PRODUCT AND COMPANY IDENTIFICATION

	Product name	:	Thiamine hydroch	loride	
	Product Number Brand	:	T4625 Sigma-Aldrich		
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 631 USA	03	
	Telephone	:	+1 800-325-5832		
	Fax	:	+1 800-325-5052		
	Emergency Phone #	:	(314) 776-6555		
2. C	OMPOSITION/INFORMATIO	N C			
	Synonyms	:	Aneurine hydrochloride Vitamin B1 hydrochlorid		
	Formula	:	C12H17CIN4OS · HCI		
	Molecular Weight	:	337.27 g/mol		
	CAS-No.	EC	C-No.	Index-No.	Concentration [%]

	Thiamine hydrochloride			
[	67-03-8	200-641-8	-	-

## **3. HAZARDS IDENTIFICATION**

## Emergency Overview OSHA Hazards

No OSHA Hazards

#### HMIS Classification Health Hazard: 1

Flammability: 0 Physical hazards: 0

## NFPA Rating

Inhalation

Health Hazard: 0 Fire: 0 Reactivity Hazard: 0

## **Potential Health Effects**

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Skin

May cause eye irritation. May be harmful if swallowed.

## **4. FIRST AID MEASURES**

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point no data available

Ignition temperature no data available

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions** Avoid dust formation.

**Environmental precautions** Do not let product enter drains.

# Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Light sensitive.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

**Eye protection** Safety glasses

**Hygiene measures** General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	solid
Colour	no data available

## Safety data

рН	no data available
Melting point	260 °C (500 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

LD50 Oral - rat - 3,710 mg/kg Remarks: Peripheral Nerve and Sensation:Spastic paralysis with or without sensory change. Behavioral:Tremor. Lungs, Thorax, or Respiration:Other changes.

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

Chronic exposure

no data available

## Signs and Symptoms of Exposure

Exposure to high concentrations can cause:, Nausea, Tightness of:, Throat., Itching, Weakness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

#### **12. ECOLOGICAL INFORMATION**

#### Elimination information (persistence and degradability)

no data available

#### Ecotoxicity effects

no data available

#### Further information on ecology

no data available

## **13. DISPOSAL CONSIDERATIONS**

#### Product

Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

#### **15. REGULATORY INFORMATION**

# OSHA Hazards

No OSHA Hazards

#### TSCA Status On TSCA Inventory

DSL Status

All components of this product are on the Canadian DSL list.

## SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components No Components Listed		
Pennsylvania Right To Know Components		
, , ,	CAS-No.	Revision Date
Thiamine hydrochloride	67-03-8	
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Thiamine hydrochloride	67-03-8	
California Prop. 65 Components		

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## **16. OTHER INFORMATION**

#### **Further information**

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