

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## SIHA Vitamin B1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Trade name/designation:**

SIHA Vitamin B1

**Additional information:**

The substance does not require registration according to REACH.

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture:**

Yeast Nutrient

#### 1.3. Details of the supplier of the safety data sheet

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Eaton Technologies GmbH**

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

**Telephone:** +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

**Telefax:** +49 6704 204-121

**E-mail:** SDB@Eaton.com

**Website:** www.eaton.com/filtration

#### 1.4. Emergency telephone number

No data available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**Additional information:**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

#### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

**Description:**

Thiamin chloride hydrochloride (CAS Nr.: 67-03-8; EINECS Nr.:200-641-8).

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-03-8 EC No.: 200-641-8	thiamine hydrochloride	100 %

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Following inhalation:**

Provide fresh air. Remove casualty to fresh air and keep warm and at rest.  
In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

Subsequently wash off with: Water and soap.  
In case of skin irritation, consult a physician.  
IF ON CLOTHING: Take off immediately all contaminated clothing.

**After eye contact:**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion:**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>), Water spray, Foam, Dry extinguishing powder

**Unsuitable extinguishing media:**

High power water jet

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Ammonia, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid)  
Explosive dust-air mixtures may form.

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
In case of fire: Wear self-contained breathing apparatus.  
Suppress gases/vapours/mists with water spray jet.  
Treat the recovered material as prescribed in the section on waste disposal.

#### 5.4. Additional information

No data available

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Provide adequate ventilation.  
Avoid dust formation.

**Protective equipment:**

Wear personal protection equipment.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

In case of fire: Wear self-contained breathing apparatus.

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### 6.2. Environmental precautions

Knock down dust with water spray jet.  
Do not allow to enter into soil/subsoil.  
Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Wash with plenty of water.

### 6.4. Reference to other sections

No data available

### 6.5. Additional information

No data available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Avoid dust formation. Do not breathe dust. The substance should only be handled in closed apparatus or systems. Dust should be exhausted directly at the point of origin.  
Use approved industrial vacuum cleaner for removal.

#### Fire prevent measures:

Take precautionary measures against static discharges.  
May form combustible dust concentrations in air.  
The product is: Flammable

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.  
Store in a well-ventilated place. Keep container tightly closed.  
Keep container dry.

#### Hints on storage assembly:

Do not store together with: Oxidising agent

#### Further information on storage conditions:

Protect against: Light, UV-radiation/sunlight

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

See protective measures under point 7 and 8.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses

##### Skin protection:

Hand protection: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Suitable material:

NBR (Nitrile rubber) > 480 min. DIN EN 374

Butyl caoutchouc (butyl rubber) > 480 min. DIN EN 374

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### Respiratory protection:

Respiratory protection necessary at: insufficient ventilation, high concentrations

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 1

### Other protection measures:

Protective clothing: Wear personal protection equipment.

Wash contaminated clothing prior to re-use.

General health and safety measures: Do not breathe dust.

Avoid contact with eyes and skin.

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

Apply skin care products after work.

### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

AGW-Value: 3 mg/m<sup>3</sup> alveolar dust; 10 mg/m<sup>3</sup> respirable dust. Exceeding this limit could cause mechanical obstructions of the respiratory tract.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Powder

Colour: white

Odour: characteristic

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	248 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

Explosive dust-air mixtures may form.

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### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Reacts with :

Oxidising agent, Alkali (lye), Reducing agent. Metal

### 10.4. Conditions to avoid

Heat; Humidity; Light

### 10.5. Incompatible materials

Alkali (lye), Oxidising agent, Reducing agent. Metal, base

### 10.6. Hazardous decomposition products

violent exothermic decomposition on heating.

Hazardous decomposition products: Hydrogen cyanide (hydrocyanic acid), Hydrogen chloride (HCl)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity:

Acute toxicity (oral)

Mouse LD50: 8224 mg/kg

Rat LD50: 3710 mg/kg

#### Skin corrosion/irritation:

Irritant effect on the skin: mild irritant.

May cause respiratory irritation.

Primary irritations of the mucous membrane:

#### Respiratory or skin sensitisation:

May cause sensitisation especially in sensitive humans.

rare cases of anaphylactoid shock after parenteral application have been recorded (man).

#### Germ cell mutagenicity:

No information available.

#### Carcinogenicity:

No information available.

#### Reproductive toxicity:

No information available.

#### STOT-single exposure:

No information available.

#### STOT-repeated exposure:

No information available.

#### Aspiration hazard:

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

Acute fish toxicity:

Oncorhynchus mykiss (Rainbow trout): LC50: 96h > 100 mg/L OECD 203

Oncorhynchus mykiss (Rainbow trout): EC50 48h > 100 mg/L OECD 202

Desmodesmus subspicatus: IC50: 72h > 100 mg/L

#### Terrestrial toxicity:

barely toxic for microorganisms (activated sludge).

### 12.2. Persistence and degradability

#### Additional information:

Further ecological information: Readily biodegradable (according to OECD criteria). 74 %, 7 d

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### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

#### Waste treatment options

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

### 13.2. Additional information

No data available

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

### 14.1. UN-No.

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

No data available

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### 15.1.2. National regulations

 [DE] National regulations

**Water hazard class (WGK)**

**WGK:**

1 - schwach wassergefährdend

**Source:**

S Selbsteinstufung

### 15.2. Chemical Safety Assessment

No data available

### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.