Business Worldwide

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

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

1.1. Product identifiers

SIHA Vitamin B1

The substance does not require registration according to Regulation (EC) No 1207/2006 [REACH]: X

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

Use of the substance/ preparation: Yeast Nutrient

1.3. Details of the supplier of the safety data sheet					
Supplier (manufacturer/importer/ downstream user/distributor):	Eaton Technologies GmbH				
	Begerow Product Line				
	An den Nahewiesen 24				
	55450 Langenlonsheim				
Telephone:	+49 6704 204-0				
Telefax:	+49 6704 204-121				
E-mail (competent person):	SDB@Eaton.com				
Dept. responsible for information:	Produktmanagement				
	Only available during office hours.				
Information telephone:	+49 6704 204-0				
1.4. Emergency telephone number					
Dept. responsible for information:	Produktmanagement				
	Only available during office hours.				

Emergency telephone:

s. +49 6704 204-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP):

none/none

Classification according to Directive 67/548/EEC or 1999/45/EC:

none/none

Further remarks:

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

2.2. Label elements

2.3. Other hazards

SECTION 3: Composition / Information on ingredients

Chemical characterization (preparation):

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

3.1. Substances

3.2. Mixtures

Hazardous ingredients:

CAS No.	EC No	Chemical name:/ REACH registration No.	of (%)	up to (%)	Unit/ Content	Hazard symbol(s)	R phrases	INDEX no.
67-03-8	200-641-8	thiamine hydrochloride		100	%			

Full text of R-phrases: see section 16.

Labelling (CLP):

С	AS No.	EC No	Chemical name:/ REACH registration No.	Hazard pictograms	Signal word	Hazard statements
	67-03-8	200-641-8	thiamine hydrochloride			

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After 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.

Take off immediately all contaminated clothing.

In case of 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

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

Information to physician:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2). Atomized water. Foam. Dry extinguishing powder.

Extinguishing media which must not be used for safety reasons:

High power water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

In case of fire may be liberated: Ammonia. Nitrogen oxides (NOx). Sulphur oxides. Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid). Explosive dust-air mixtures may form.

5.3. Advice for firefighters

Special protective equipment 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.

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 generation of dust.

Protective equipment:

Wear personal protection equipment.

6.1.2. For emergency responders

Personal protective equipment:

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

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

Methods for cleaning up:

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

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling:

Avoid generation of dust. 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.

Precautions against fire and explosion:

Take precautionary measures against static discharges.

The product is: Flammable.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep/Store only in original container.

Hints on joint storage:

Do not store together with: Oxidising agent.

Further information on storage conditions:

Protect against: Light UV-radiation/sunlight.

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

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits rsp. biological occupational exposure limits requiring monitoring:

Remarks:

AGW-Value: 3 mg/m³ alveolar dust; 10 mg/m³ respirable dust. Exeeding this limit could cause mechanical obstructions of the respiratory tract.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures:

See protective measures under point 7 and 8.

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 .2.2. Personal protective equipment Respiratory protection: Respiratory protection necessary at/for: insufficient ventilation. high con Suitable respiratory protection apparatus: Filtering device (DIN EN 147 land protection: The selection of the suitable gloves does not only depend on the material, but 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 Eye protection: Eye glasses. Body protection: Wear personal protection equipment. Wash contaminated clothing prior to re-use.). P 1
General protection and hygiene measures: No not breathe dust. Noid contact with skin and eyes. When using do not eat, drink, smoke, sniff. Vash hands before breaks and after work. Noply skin care products after work.	
.2.3. Environmental exposure controls:	
SECTION 9: Physical and chemical properties	
.1. Information on basic physical and chemical properties Physical state: Powder Colour: white Odour: characteristic mportant health, safety and environmental information: Unit	
lelting point / melting 248 °C ange:	
.2. Other information	
SECTION 10: Stability and reactivity	
0.1. Reactivity This article doesn't contain dangerous substances or preparations intended to be released under easonably foreseeable conditions of use. Explosive dust-air mixtures may form.	r normal or
0.2. Chemical stability Substance is, under normal conditions, chemically stable.	
0.3. Possibility of hazardous reactions Reacts with : Dxidising agent. Alkalis (alkalis). Reducing agent. Metal.	
0.4. Conditions to avoid leating ; Humidity ; Light	
0.5. Incompatible materials Ikalis (alkalis). Oxidising agent. Reducing agent. Metal, base.	
0.6. Hazardous decomposition products iolent exothermic decomposition on heating. lazardous decomposition products Hydrogen cyanide (hydrocyanic acid). Hydrogen chloride (H	CI)
SECTION 11: Toxicological information	

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Acute toxicity:

Acute toxicity, oral Mouse. LD50: 8224 mg/kg Rat. LD50: 3710 mg/kg

Irritant and corrosive effects:

Irritant effect on the skin: mild irritant.

May cause respiratory irritation.

Primary irritations of the mucous membrane:

Sensitisation:

May cause sensitisation especially in sensitive humans.

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

No data available

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Acute fish toxicity Oncorhynchus mykiss LC50: 96h > 100 mg/l OECD 203 Oncorhynchus mykiss 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

Method: Readily biodegradable (according to OECD criteria) 74 %, 7 d

12.3. Bioaccumulative potential

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation:

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.

Contaminated packaging:

Recommendation:

Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1. Land transport (ADR/RID)

14.2. Inland waterway craft (ADN/ADNR)

14.3. Sea transport (IMDG)

14.4. Air transport (ICAO-TI / IATA-DGR)

14.5. Additional information:

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Class: 1 **Source:** S Selbsteinstufung

15.2. Chemical Safety Assessment

SECTION 16: Other information

Further remarks:

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.

E-mail (competent person):

SDB@Eaton.com