

Safety Data Sheet according to Regulation (EU) 2015/830 Date of issue: 11/10/2018

L0406

Version: 1.0

1.1. Product identifier	
Product form	: Mixture
Trade name	: Linsmaier & Skoog vitamin mixture
Product code	: L0406
Synonyms	<ul> <li>Linsmaier &amp; Skoog vitamin mixture to prepare a 1000X vitamin stock solution.</li> </ul>
Product group	: Raw material

#### 1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended
	only for "in vitro laboratory" research purposes.

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

#### **Emergency telephone number** 1.4.

Emergency number

: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00)

+31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

### **SECTION 2: Hazards identification**

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

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

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#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Myo-Inositol	(CAS-No.) 87-89-8 (EC-No.) 201-781-2	99,6016	Not classified
Thiamine hydrochloride	(CAS-No.) 67-03-8 (EC-No.) 200-641-8	0,3984	Not classified

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Seek medical attention if ill effect develops.		
First-aid measures after inhalation	: Remove victim to fresh air.		
First-aid measures after skin contact	: Wash skin with mild soap and water.		
First-aid measures after eye contact	: Rinse with water.		
First-aid measures after ingestion	: Rinse mouth.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after skin contact : Causes skin irritation.			

0		. Deducer	
Symptoms/effects after eg	ye contact	: Redness,	pain.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	<ul> <li>Alcohol resistant foam.</li> <li>Dry chemical powder.</li> <li>Carbon dioxide (CO2).</li> <li>Water spray.</li> </ul>
5.2. Special hazards arising from	the substance or mixture
Hazardous decomposition products in	: Under fire conditions, hazardous fumes will be present:
case of fire	- COx
	- NOx
	- SOx.

#### 5.3. Advice for firefighters

Firefighting instructions	: Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear proper protective equipment.

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### SECTION 6: Accidental release measures

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

General measures : Avoid raising powdered materials into airborne dust.

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Wear suitable protective clothing.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters.

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

Methods for cleaning up

: Sweep up dry powder and dispose properly.

#### **Reference to other sections** 6.4.

No additional information available

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid dust formation. Handle in accordance with good industrial hygiene
	and safety procedures.

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

Storage conditions	: Store at room temperature
	Store in dry, well-ventilated area
	Hygroscopic
	Keep container tightly closed and dry.

#### Specific end use(s) 7.3.

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

#### Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

#### Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

#### Skin and body protection:

In case of possible repeated skin contact wear protective clothing

#### **Respiratory protection:**

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

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### **SECTION 9: Physical and chemical properties**

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

3.1. Information on basic physical and chemical properties			
Physical state Appearance Colour	:Solid :Powder. :White to slightly yellow.		
Odour Odour threshold pH Relative evaporation rate (butylacetate=1)	<ul> <li>Characteristic. Weak.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>		
Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Solubility	<ul> <li>No data available</li> </ul>		
Log Pow Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	<ul> <li>No data available</li> </ul>		

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of storage, handling and use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### **10.4.** Conditions to avoid

Moisture.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates :

- COx

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- NOx

- SOx.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information

: Prevent entry to sewers and public waters. Avoid release to the environment

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	ΙΑΤΑ
14.1. UN number		
Not regulated	Not regulated	Not regulated
		·
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ADR	IMDG	ΙΑΤΑ	
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.4. Packing group			
Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	
No supplementary information available			

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

#### Germany

Reference to AwSV

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

- : Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV, Annex 1)
- : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
- : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling : None of the components are listed

#### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

#### Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. TNO (Netherlands Organisation for Applied Scientific Research).

#### SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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