Jorenku A/S
Teglvaerksvej 11
DK-4733 Tappernoeje
Tel.: +45 56 21 40 70
jorenku@jorenku.dk
www.jorenku.dk

### **SAFETY DATA SHEET**

Safety data sheet according to (EF) no. 1907/2006.

### POINT 1: Identification of material/compounds and of the company/factory

### 1.1. Product identifier:

**Eurovit B-Complex** 

# 1.2. Relevant identifying use of the material or compound and the usage that is contraindicated:

Vitamin mixture used s a feed ingredient.

### 1.3. Detailed information about the supplier for the safety data sheet:

Jorenku A/S

Teglvaerksvej 11

4733 Tappernoeje

Denmark

Tel.: +45 56214070

Responsible for safety data sheet (e-mail): jorenku@jorenku.dk

### 1.4. Emergency phone:

Contact the poison centre in your own country.

### **POINT 2: Identification of danger**

# 2.1. Classification of the material or compound:

CLP (1272/2008): None

### 2.2. Label elements:

EUH 208: Contains calcium folinate. May produce an allergic reaction.

EUH 210: Safety data sheet available on request.

### 2.3. Other dangers:

PBT/vPvB: The ingredients are not PBT/vPvB according to the criteria in REACH annex XIII. Endocrine disrupting properties: The ingredients are not considered endocrine disruptors according to the criteria of Regulation 2017/2100 or Regulation 2018/605.

### **POINT 3: Compensation of/information about contents**

### 3.1. Compensation of/information about contents

# 3.2. Compounds:

Issue 1

Substance name	CAS	EF-No.	Index-no.	REACH reg.no.	Substance Classification
Nicotinamide	98-92-0	202-713-4	-	-	Eye Irrit. 2;H319
Calcium folinate	1492-18-8	216-082-8	-	-	Skin Sens. 1;H317 Resp. Sens. 1;H334 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335

The wording of the hazard statements - see paragraph 16.

Issue date 24. August 2022

Jorenku A/S
Teglvaerksvej 11
DK-4733 Tappernoeje
Tel.: +45 56 21 40 70
jorenku@jorenku.dk
www.jorenku.dk

### **POINT 4: First aid measures**

# 4.1. Description of first aid measures:

Inhalation: Bring the person to fresh air. Keep calm under supervision. In case of discomfort: Seek

medical attention.

Skin: Remove contaminated clothing. Rinse skin and wash thoroughly with soap and water. In

case of discomfort: Seek medical attention.

Eyes: Rinse with water or physiological saline. If possibly remove contact lenses and open the

eye wide. By continued irritation: Seek medical attention.

Ingestion: Immediately rinse mouth thoroughly and drink water in copious amounts. **Do not** 

induce vomiting. If vomiting occurs, keep the head low to avoid stomach contents in

the lungs.

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

An allergic reaction with red and itchy eczema may occur. Inhalation of atomised liquid may cause asthma symptoms or shortness of breath. Mild irritation of the eyes with redness and sting. Ingestion may cause nausea and diarrhoea.

# 4.3. Indication of whether emergency medical attention and special treatment are needed:

Show this safety data sheet to doctors or casualty ward.

### **POINT 5: Fire suppression**

# 5.1. Suppression methods:

Cannot burn. Use suitable extinguishing agents against surrounding fire.

# 5.2. Special dangers in connection with the material or compound:

Not relevant.

### 5.3. Indication for a fire department:

Use compressed air mask for heavy smoke.

### POINT 6: Accidental release measures

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

Use personal protective equipment - see point 8. Ensure good ventilation.

### **6.2. Environmental protection indications:**

Avoid discharge to drains - see point 12. Inform local environmental authorities in case of spillage to the environment.

### 6.3. Methods and equipment for containment and cleaning:

Collected and handled as chemical waste. Rinse thoroughly with water. Further waste handling - see point 13.

### **6.4. References to other points:**

See above.

# **POINT 7: Handling and storage**

### 7.1. Measures for safe handling:

Avoid inhalation of vapours/aerosols and contact with skin, eyes and clothing. Immediately wash skin if it becomes contaminated. Immediately change contaminated clothing. After use, wash with plenty of soap and water.

# JORENKU Eurovit B-Complex

Jorenku A/S
Teglvaerksvej 11
DK-4733 Tappernoeje
Tel.: +45 56 21 40 70
jorenku@jorenku.dk
www.jorenku.dk

# 7.2. Conditions for safe storage, including any incompatibility:

Cool, dry and in well-closed original container and away from heat and direct sunlight.

### 7.3. Special usage:

See use - point 1.

# PUNKT 8: Exposure control/personal protective equipment

### 8.1. Control parameter:

AT-limit value (reg. 1054 of 28.06.2022): None.

DNEL/PNEC: None.

Issue 1

# 8.2. Exposure control:

Appropriate measures for exposure control: Provide effective ventilation.

Personal protective equipment:

Inhalation: In case of insufficient ventilation: Use approved mask with combination filter class A/P2

(EN 140). The filters have a limited service life (must be changed). Read the

manufacturer's instructions.

Skin: Use protective gloves (EN374) of e.g. nitrile rubber (> 0.11 mm). It has not been possible

to find data for the breakthrough time of all the ingredients, so it is recommended to replace gloves in case of spillage. If spilled on the glove, change it immediately and wash

hands thoroughly with soap and water.

Eyes: Close-fitting safety glasses (EN166) in case of risk of spatter or eye contact.

Environmental exposure controls: None specific.

# **POINT 9: Physical and chemical characteristics**

# 9.1. Information about basic physical and chemical characteristics:

Appearance: Liquid Colour: Not decided Odor: Characteristic Melting point/freezing point (°C): Not decided Boiling point or bubble-point and boiling point interval (°C): Not decided Ignitability (solid, gaseous): Not decided Upper/lower explosion limits (vol-%): Not decided Flash point (°C): Not decided Auto-ignition temperature (°C): Not decided Self-accelerating decomposition temperature (°C): Not relevant Not decided pH: Kinematic viscosity (mm $^2$ /s at 40°C): Not decided Solubility (mg/l): Soluble in water

Partition coefficient n-octanol/water Log K<sub>ow</sub>: Not relevant – solution

(see point 12)

Page 3 of 6

Vapor pressure (hPa, 20°C):

Density and/or relative density (g/cm³):

Relative vapor density (air=1):

Not decided

Not decided

Particulate properties: Not decided for liquids

**9.2. Other information:**None relevant.

Issue date 24. August 2022

# JORENKU Eurovit B-Complex

Jorenku A/S
Teglvaerksvej 11
DK-4733 Tappernoeje
Tel.: +45 56 21 40 70
jorenku@jorenku.dk
www.jorenku.dk

### **POINT 10: Stability and reactivity**

# 10.1. Reactivity:

No known.

### 10.2. Chemical stability:

Stable under recommended storage conditions - see point 7.

# 10.3. Risk of dangerous reactions:

None known.

### 10.4. Conditions that should be avoided:

Air and light.

### 10.5. Materials that should be avoided:

Strong acids, bases and oxidants.

### 10.6. Dangerous decomposition products:

In case of fire or strong heating, very toxic gases are released: primarily carbon oxides.

### **POINT 11: Toxicological information**

# 11.1. Information about hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproduction toxicity: Based on available data, the classification criteria are not met.

Single STOT-exposure: Based on available data, the classification criteria are not met.

Repeated STOT-exposures: Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Danger class	Data	Test	Data source
Acute toxicity:			
Inhalation	$LC_{50}$ (rat) > 3.8 mg/l (Nicotinamide)	Not informed	ECHA
Dermal	$LD_{50}^{0}$ (rabbit) > 2000 mg/kg (Nicotinamide)	Not informed	ECHA
Oral	$LD_{50}^{30}$ (rat) > 2500 mg/kg (Nicotinamide)	Not informed	TOXNET
Corrosivity/irritation:	Eye irritation, rabbit (Nicotinamide)	OECD 404	ECHA
	No skin irritation, rabbit (Nicotinamide)		
Sensitisation:	No skin sensitization, guinea pig (Nicotinamide)	OECD 406	ECHA
CMR:	No CMR-effects (Nicotinamid)	Not informed	ECHA

Usual exposure methods: Gastrointestinal tract.

Inhalation: Inhalation of atomised liquid may irritate the lungs and cause asthma symptoms or

shortness of breath.

Skin: May be mildly irritating.

Eyes: May be irritating with redness and stinging.

Ingestion: May be absorbed through the gastrointestinal tract when ingested. Nausea and

diarrhoea may occur.



Jorenku A/S Teglvaerksvej 11

DK-4733 Tappernoeje Tel.: +45 56 21 40 70 jorenku@jorenku.dk www.jorenku.dk

Chronic

effects: An allergic reaction with red and itchy eczema may occur.

### **11.2. Information about other hazards:** None known.

### **POINT 12: Environmental information**

### 12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC <sub>50</sub> (Guppy fish, 96h) > 1000 mg/l (Nicotinamide)	OECD 203	ЕСНА
Crustacean	$EC_{50}$ (Daphnia sp., 48h) > 1000 mg/l (Nicotinamide)	OECD 202	ЕСНА
Alga	EC <sub>50</sub> (Scenedesmus subspicatus, 72h) > 1000 mg/l (Nicotinamide)	OECD 201	ЕСНА

### 12.2. Persistence and degradability:

Nicotinamide is decomposed 100 % during 28 days at an OECD-test and thus it is rapidly degradable.

# 12.3. Bioaccumulative potential:

No available/applicable data.

### 12.4. Mobility in soil:

No available/applicable data.

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

The ingredients are not PBT/vPvB according to the criteria in REACH annex XIII.

### 12.6. Endocrine-disrupting capacities:

None known.

### 12.7. Other adverse effects:

None known.

### **POINT 13: Removal**

### 13.1. Methods for waste handling:

Use the local authority's collection scheme.

**Chemical waste group: EAK-code:** 16 05 09

# **POINT 14: Transport information**

Not covered by the transport regulations (ADR/RID/IMDG/IATA).

- 14.1. UN-number or ID-number: None.
- 14.2. UN-shipment designation (UN proper shipping name): None.
- 14.3. Transport danger class(es): None.
- 14.4. Packaging group: None.
- 14.5. Environmental dangers: None.
- **14.6. Special regulations for the user:** None.
- **14.7. Bulk transport by sea according to IMO instruments:** Not relevant.

Issue 1

Jorenku A/S Teglvaerksvej 11 DK-4733 Tappernoeje Tel.: +45 56 21 40 70 jorenku@jorenku.dk www.jorenku.dk

### **POINT 15: Information about regulations**

15.1. Special determinations/special rules for the material or compound with respect to safety, health and environment:

PR-number: Must not to be reported - see point 16.

### 15.2. Chemical safety evaluation:

No CSR.

### **POINT 16: Other information**

### **Abbreviations:**

AT = Working environment authority

CMR = carcinogenic, mutagenic, or toxic to reproduction

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC<sub>50</sub> = Effect Concentration 50 %

 $LC_{50}$  = Lethal Concentration 50 %

 $LD_{50}$  = Lethal dosage 50 %

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

FW = Fresh Water

vPvB = very Persistent, very Bioaccumulative

### Literature:

ECHA = REACH Registration dossier from ECHA's website

### **Advice on training / instruction:**

The product may only be used by persons who are carefully instructed in the execution of the work and who have knowledge of the contents of this safety data sheet.

### **Further information:**

The product does not have to be report to the Product Register, as it is not covered by the notification requirements.

### **Changes since previous version:**

Not relevant - first edition.

Made by: Altox a/s - Tonsbakken 16-18 - DK-2740 Skovlunde - Tel. +45 38 34 77 98 / PH - Quality control PW Translated by: Jorenku A/S - Teglvaerksvej 11 - DK-4733 Tappernoeje - Tel. +45 56 21 40 70 / LVB

