

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:

Calci-Liq

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

Feed ingredient.

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

Jorenku A/S
Teglvaerksvej 11
4733 Tappernoeye
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 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:

Substance name	CAS	EF-No.	Index-no.	REACH reg.no.	Substance Classification
Calcium chloride	10043-52-4	233-140-8	017-013-00-2	01-2119494219-28	Eye Irrit. 2;H319
6-Phytase	9001-89-2	629-845-9	-	-	Skin Sens. 1B;H317 Resp. Sens. 1;H334

The wording of the hazard statements - see paragraph 16.

POINT 4: First aid measures

4.1. Description of first aid measures:

Inhalation: Immediately bring the person to fresh air. Keep the person 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. In case of continued irritation: seek medical attention.
- Ingestion:** 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:

Mild irritation of the eyes with redness and stinging. In sensitive individuals, phytase can cause symptoms of allergy or asthma such as wheezing, coughing and oppression in the chest or shortness of breath by inhalation, as well as an allergic skin reaction with red and itchy eczema.

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:

Not relevant.

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

Cannot burn.

5.3. Indication for a fire department:

Use a compressed air mask in case of heavy smoke formation.

POINT 6: Accidental release measures

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

Use personal protective equipment - see point 8. Limit spread. 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:

Provide effective ventilation. Avoid contact with skin and eyes. After use, wash with plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibility:

Cool, dry, in a well-ventilated place.

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:	Exposure	Value	Population	Effects
Calcium chloride	Long-term, inhalation	5 mg/m ³	Workers	Local
	Acute, inhalation	10 mg/m ³	Workers	Local
	Acute, inhalation	5 mg/m ³	Forbrugere	Local
	Long-term, inhalation	2,5 mg/m ³	Forbrugere	
PNEC:	Medium	Value		
Calcium chloride	Soil	215 mg/kg		

8.2. Exposure control:

Appropriate measures for exposure control: None.

Personal protective equipment:

Inhalation: Normally not necessary.

Skin: Wear protective gloves (EN374) made of nitrile rubber (> 0.35 mm). Breakthrough time approx. 8 hours.

Eyes: Tightly fitted safety goggles (EN 166) by risk of spatter.

Environmental exposure controls: None.

POINT 9: Physical and chemical characteristics

9.1. Information about basic physical and chemical characteristics:

Appearance:	Liquid
Colour:	None known
Odor:	None known
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 decided
pH:	Not decided
Kinematic viscosity (mm ² /s at 40°C):	Not decided
Solubility (mg/l):	Soluble in water
Partition coefficient n-octanol/water Log K _{ow} :	Not decided
Vapor pressure (hPa, 20°C):	Not decided
Density and/or relative density (g/cm ³):	> 1
Relative vapor density (air=1):	Not decided
Particulate properties:	Not decided for liquids
9.2. Other information:	None known.

POINT 10: Stability and reactivity

10.1. Reactivity:

No available data.

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:

None known.

10.5. Materials that should be avoided:

Strong oxidants and reductants.

10.6. Dangerous decomposition products:

In case of fire or strong heating, very toxic gases are released.

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	No relevant available data.	-	-
Dermal	LD ₅₀ (rabbit) > 5000 mg/kg (Calcium chloride)	OECD 402	Supplier
Oral	LD ₅₀ (rat) = 2120 mg/kg (Calcium chloride)	OECD 401	Supplier
Corrosivity/ irritation:	None to mild skin irritation, rabbit (Calcium chloride) Eye irritation, rabbit (Calcium chloride)	OECD 404 OECD 405	IUCLID IUCLID
Sensitisation:	Not sensitizing (rabbit) (Calcium chloride)	OECD 406	Supplier
CMR:	No mutagenic or carcinogenic effects (Calcium chloride) NOAEL (rabbit, 12 d) = 169 mg/kg (Calcium chloride)	OECD 471/473 OECD 414	Supplier Supplier

Usual exposure methods: Gastrointestinal tract.

Symptoms:

Inhalation: May be mildly irritating to the mucous membranes of the respiratory tract.

Skin: May be slightly irritating.

Eyes: Can be irritating with redness and sting.

Ingestion: In large quantities (10-15 g) ingestion of calcium chloride can cause diarrhoea.

Chronic effects: None known.

11.2. Information about other hazards: None known.

POINT 12: Environmental information

12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ (Pimephales promelas, 96h) = 4630 mg/l (Calcium chloride)	Not informed (FW)	Supplier
Crustacean	EC ₅₀ (Daphnia magna, 48h) = 2400 mg/l (Calcium chloride) NOEC (Daphnia magna, 48h) = 2000 mg/l (Calcium chloride)	OECD 202 (FW) OECD 202 (FW)	Supplier Supplier
Alga	EC ₅₀ (Pseudokirchneriella subcapitata, 72h) = 2900 mg/l (Calcium chloride) NOEC (Pseudokirchneriella subcapitata, 72h) = 1000 mg/l (Calcium chloride)	OECD 201 (FW) OECD 201 (FW)	Supplier Supplier

12.2. Persistence and degradability:

Methods for determining the biodegradability do not apply to inorganic substances.

12.3. Bioaccumulative potential:

No expected bioaccumulation.

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:**

H 02 02 99

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.

POINT 15: Information about regulations

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

PR-no.: Must not 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

EC₅₀ = Effect Concentration 50 %

LC₅₀ = Lethal Concentration 50 %

LD₅₀ = Lethal dosage 50 %

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

FW = Fresh Water

vPvB = very Persistent, very Bioaccumulative

Literature:

IUCLID = International Uniform Chemical Database Information

The supplier's safety data sheet

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.

Additional information:

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

Changes since previous version:

Not relevant - first edition.

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