

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD

Version 6.0

Print Date 07.11.2023

Revision date / valid from 28.12.2022

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

1.1. Product identifier

Trade name : CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD
Substance name : Calcium sulfate dihydrate
CAS-No. : 10101-41-4
EC-No. : 600-148-1
EU REACH-Reg. No. : 01-2119444918-26-xxxx

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

Use of the Substance/Mixture : Used as:, Food additive
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic A/S
Borupvang 5 B
DK 2750 Ballerup
Telephone : +45 43 29 28 00
Telefax : +45 43 29 27 00
E-mail address : dk-sds@brenntag.com
Responsible/issuing person : Environment & Quality

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: +45 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: +358 9 471 977 Finnish Poison Information Center (24 h/day)
Norway: +47 22 59 13 00 Giftinformasjonen (døgnåpent)
Sweden: +46-8-33 70 43 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

Human Health : Inhalation may cause the following effects:, Cough
Skin contact may cause the following effects:, May irritate skin.
Eye contact may cause the following effects:, May irritate eyes.

Physical and chemical hazards : The product is not flammable.

Potential environmental effects : The product is not classified as dangerous for the environment.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Ecological information: No information available about endocrine disruption properties for environment.

Toxicological information: No information available about endocrine disruption properties for human health.

SECTION 3: Composition/information on ingredients

3.1. Substances

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Calcium sulfate dihydrate	CAS-No. : 10101-41-4 REACH-Reg. No. 01-2119444918-26-xxxx	<= 100

CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD**SECTION 4: First aid measures****4.1. Description of first aid measures**

General advice	: No special precautions required.
If inhaled	: Remove to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off with soap and water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: Health injuries are not known or expected under normal use. See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	: The product itself does not burn. Water spray, foam, dry powder or CO ₂ .
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: None known.
Hazardous combustion products	: No hazardous combustion products are known

5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.
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Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. Respirator must be worn if exposed to dust.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. The product is not flammable.

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Further information on storage conditions : Keep tightly closed in a dry and cool place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Long-term - systemic effects, Inhalation anhydrous substance : 21,17 mg/m³

DNEL

Workers, Acute - systemic effects, Inhalation anhydrous substance : 5082 mg/m³

DNEL

Consumers, Long-term - systemic effects, Inhalation anhydrous substance : 5,29 mg/m³

DNEL

Consumers, Acute - systemic effects, Inhalation anhydrous substance : 3811 mg/m³

DNEL

Consumers, Long-term - systemic effects, Ingestion anhydrous substance : 1,52 mg/kg bw/day

DNEL

Consumers, Acute - systemic effects, Ingestion anhydrous substance : 11,4 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Sewage treatment plant (STP) anhydrous substance : 100 mg/l

Component:

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Other Occupational Exposure Limit Values

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Time Weighted Average (TWA):, Total dust.
10 mg/m³

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):, Respirable dust.
5 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
Respiratory protection complying with EN 141.
Particle filter:P1

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber
Break through time : > 8 h
Glove thickness : 0,11 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form	:	solid
Physical state	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flammability (solid, gas)	:	does not ignite
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 140 °C Elimination of water of crystallisation
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	7,0 (20 °C) Concentration: 50 g/l (aqueous suspension)
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	2 g/l (20 °C)
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available

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Partition coefficient: n-octanol/water : This product is inorganic substance.

Dispersion Stability : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 2,32 g/cm³ (20 °C)

Bulk density : 800 - 1.000 kg/m³

Relative vapour density : No data available

Particle characteristics
No data available

9.2 Other information

Explosives : Product is not explosive.

Oxidizing properties : not oxidising

Flammability (liquids) : Not applicable

Molecular weight : 172,15 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : May react with strong reducing agents under heat (powdered aluminium, potassium metal etc.).

10.4. Conditions to avoid

Conditions to avoid : Excessive heat. At heating water will be lost.
Thermal decomposition : > 140 °C
Elimination of water of crystallisation

10.5. Incompatible materials

Materials to avoid : Strong reducing agents

10.6. Hazardous decomposition products

Hazardous decomposition : No information available.

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products

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

This material may be a slight health hazard if ingested in large quantities.

Inhalation

Inhalation of high concentration may cause mechanical overstraining of mucous membranes.

Irritation

Skin

Result : Prolonged skin contact may cause skin irritation.

Eyes

Result : Dust in the eyes may cause mechanical irritation.

Component: **Calcium sulfate dihydrate** **CAS-No. 10101-41-4**

Acute toxicity

Oral

LD50 : > 2000 mg/kg (Rat, female) (OECD Test Guideline 420)

Inhalation

LC0 : 3,26 mg/l (Rat, male and female; 4 h; dust/mist) (OECD Test Guideline 403) No mortality within the stated exposition time as shown in animal studies.

Dermal

No data available

Irritation

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Skin

Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

Eyes

Result : No eye irritation (Rabbit) (OECD Test Guideline 405)

Sensitisation

Result : not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)

CMR effects

CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects.
 Mutagenicity : In vitro tests did not show mutagenic effects
 In vivo tests did not show mutagenic effects
 Teratogenicity : Animal testing did not show any effects on foetal development.
 Reproductive toxicity : Animal testing did not show any effects on fertility.

Genotoxicity in vitro

Result : negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)
 negative (Bacterial Reverse Mutation Test; Escherichia coli; with and without metabolic activation) (OECD Test Guideline 471)
 negative (In vitro gene mutation study in mammalian cells; Mouse Lymphoma Cells; with and without metabolic activation) (OECD Test Guideline 476)

Genotoxicity in vivo

Result : negative (Unscheduled DNA synthesis test (UDS) in testicular cells; Mouse, male) (Oral;) (OECD Test Guideline 474)

Teratogenicity

NOAEL : 1.600 mg/kg bw/day
 Maternal
 (Prenatal Developmental Toxicity Study; Mouse)(Oral)(OECD Test Guideline 414)No adverse effects
 NOAEL : 1.600 mg/kg bw/day
 Maternal
 (Prenatal Developmental Toxicity Study; Rat)(Oral)(OECD Test Guideline 414)No adverse effects

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NOAEL : 1.600 mg/kg bw/day
Maternal
(Prenatal Developmental Toxicity Study; Rabbit)(Oral)(OECD Test Guideline 414)No adverse effects

Reproductive toxicity

NOAEL : 790 mg/kg bw/day
Parent
NOAEL : 790 mg/kg bw/day
F1
(Rat, Sprague-Dawley, male and female)(Oral)(OECD Test Guideline 422)No adverse effects

Specific Target Organ Toxicity

Single exposure

Remarks : No data available

Repeated exposure

Remarks : No data available

Other toxic properties

Aspiration hazard

Not applicable,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: **Calcium sulfate dihydrate** **CAS-No. 10101-41-4**

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

SECTION 12: Ecological information

12.1. Toxicity

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Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Acute toxicity		
Fish		
LC50	:	> 100 mg/l (Oryzias latipes (Orange-red killifish); 96 h) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
LC50	:	> 100 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)
algae		
EC50	:	> 100 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)
Bacteria		
EC50	:	> 1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)
NOEC	:	1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

12.2. Persistence and degradability

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Persistence and degradability		
Persistence		
Result	:	No data available
Biodegradability		
Result	:	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Bioaccumulation		
Result	: Bioaccumulation is not expected.	

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12.4. Mobility in soil

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Mobility		

Water : The product is water soluble.
Air : not volatile

12.5. Results of PBT and vPvB assessment

Data for the product		
Results of PBT and vPvB assessment		

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Results of PBT and vPvB assessment		

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Endocrine disrupting properties

Data for the product		
Endocrine disrupting potential	: No information available about endocrine disruption properties for environment.	

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Endocrine disrupting potential	: No information available about endocrine disruption properties for environment.	

12.7. Other adverse effects

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
Additional ecological information		

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Eliminate waste in conditions authorized by the regulations.
Store waste in containers provided for this purpose. Do not

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dump in drains, water sheets or the ground.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Data for the product**

Other regulations : Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the

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substance, are allowed to work with it.

Exposure limits in accordance to local regulations

Component:	Calcium sulfate dihydrate	CAS-No. 10101-41-4
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EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.
to PIC Procedure:
Regulation 649/2012/EU
on export and import of
dangerous chemicals, as
amended

EU. REACH, Annex XVII, : ; The substance/mixture does not fall under this legislation.
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. Cosmetics Directive : ; Colouring agent allowed in all cosmetic product (see the
76/768/EEC - Annex IV, regulation for applicable exceptions or provisions).; Listed
Part 1

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) on major accident
hazards involving
dangerous substances,
Annex I

Notification status

Calcium sulfate dihydrate:

Regulatory List	Notification	Notification number
AICS	YES	
ENCS (JP)	YES	(1)-193
IECSC	YES	
ISHL (JP)	YES	(1)-193
NZIOC	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	55-1-00128
TH INV	YES	2833.29
VN INV L	YES	

15.2. Chemical safety assessment

CALCIUM SULPHATE DIHYDRATE /BAG 25 KG FD

No data available

SECTION 16: Other information

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing

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PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.