

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

## Calcium hydrogen phosphate dihydrate 99+%,

item number: DCF3  
Version: 1.0 en

date of composition:  
09.03.2021

## Head 1: Identification Of The Substance Or The Mixture And Of The company/ company

### 1. Product identification

Identification of the substance Calcium hydrogen phosphate dihydrate  $\geq 99\%$ ,  
Ph.Eur., USP

Item number DCF3

Registration number (REACH) The registration of the identified usage forms are not necessary because the substance conform the REACH regulation is not registered (< 1 t/a)

EC number 231-826-1

CAS number 7789-77-7

### 2. Relevant identified use of the substance or mixture and discouraged use

Identified uses: laboratory chemicals  
analytical and laboratory applications

### 3. Details concerning the security data sheet provider

Laboratory distributor  
Zandvoortstraat 75  
1976BN IJmuiden  
Netherlands  
+31 255 700  
info@laboratoriumdiscounter.nl

Competent person responsible for the safety data sheet: : Department of Risk and environment

e-mail (authorized person): [info@laboratoriumdiscounter.nl](mailto:info@laboratoriumdiscounter.nl)

### 4. Emergency phone number

Name	Street	Zip code/ city	Phone	Website
National Poisoning Information Centre	Avenue Heidelberg 100	3584 CX Utrecht	030 - 274 8888	

## HEADING 2: Identification of hazards

### 1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS			
Head	Hazard class	Hazard class and categorie	Hazards - onion-thing
3.2	skin corrosion /irritation	(Skin Irrit. 2)	H315
3.3	severe eye injury/eye irritation	(Eye Irrit. 2)	H319

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

Classification according to GHS			
Head	Hazard class	Hazard class and category	Hazards - onion-thing
3.8R	specific target organ toxicity at single exposure (respiratory irritation)	(STOT SE 3)	H335

### 1. Labelling elements

Labelling in accordance with Regulation (EC) No 1272/2008

(CLP) Signal Word Warning

#### Icons

GHS07



#### Hazard indications

H315 Causes skin irritation  
H319 Causes severe eye irritation  
H335 May cause respiratory irritation

#### Safety recommendations

##### Precautions - prevention

P280 Wear protective gloves/eye protection.

##### Precautions - response

P302+P352 WHEN IN CONTACT WITH THE SKIN: wash with plenty of water. P337+P313 In case of persistent eye irritation: consult a doctor.

Labelling of packages with a total capacity of not more than 125 ml

Signal word: **Warning**

Symbol/symbols



### 2. Other dangers

There is no further information.

## HEADING 3: Composition and information on the constituents

### 3.1 Fabrics

Name of the substance	Calcium hydrogen phosphate dihydrate
EC number	231-826-1
CAS number	7789-77-7
Molecular formula	CaHPO <sub>4</sub> * 2H <sub>2</sub> O
Molar mass	172.1 g/mole

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

## HEADING 4: First aid measures

### 1. Description of first aid measures



**General remarks** Take off contaminated clothing. **When**

#### **inhaled**

Provide fresh air.

#### **In case of skin contact**

Rinse/shower skin with water. In case of skin irritation consult doctor.

#### **In case of eye contact**

Rinse with clean, smooth water for at least 10 minutes while keeping the eyelids open. Consult an ophthalmologist in case of eye irritation.

#### **When swallowed**

Rinse the mouth. If you feel unwell, consult a doctor.

### 2. Main acute and delayed symptoms and effects

Irritation, Cough, Breathlessness

### 3. Indication of the immediate required medical care and special treatment

No

## SECTION 5: Firefighting measures

### 1. Extinguishing agents



#### **Suitable extinguishing agents**

Align extinguishing measures with the environment spray water, foam, dry extinguishing powder, carbon dioxide(CO<sub>2</sub>)

#### **Unsuitable extinguishers**

full water jet

### 2. Special hazards caused by the substance or mixture

Not combustible.

#### **Hazardous combustion products**

In case of fire can occur: phosphorus oxides (PxOy)

### 3. Advice for firefighters

Extinguish from a reasonable distance with normal precautions. Wear independent breathing juice parature.

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

## SECTION 6: Measures in the event of accidental release of the substance or mixture

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



#### For persons other than the emergency services

Wearing appropriate protective equipment (including personal protective equipment in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and clothing. Do not inhale dust.

### 2. Environmental precautions

Prevent the product from entering drains, surface water or groundwater.

### 3. Containment and cleaning methods and materials

#### Advice on how to embed the spilled product

Covering drains.

#### Advice on how to clean up the spilled product

Mechanical recording. Prevention of dust formation.

#### Other information regarding discharge or release

Bring in suitable holders for removal.

### 4. Reference to other headings

Dangerous combustion products: zie heading 5. Personal protective equipment: zie rubriek 8. Chemically interacting materials: see section 10. Removal instructions: see section 13.

## HEADING 7: Handling and storage

### 1. Precautions for the safe handling of the substance or mixture

Measures for adequate ventilation.

### 1. Measures to prevent fire and aerosol or dust formation

Removal of dust deposits.

#### Advice on general professional hygiene

For work break and work end hand washing. Keep away from food, beverages and feed.

### 1. Conditions for safe storage, including incompatible products

Store in a dry place.

#### Incompatible substances or mixtures

Pay attention to advice for storage of chemicals.

#### Consideration of other advice

##### 1. Ventilation requirements

Use of local and general ventilation.

##### 2. Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

Calcium hydrogen phosphate dihydrate 99+%,  
Ph.Eur., USP

## 1. Specific end use

No information is available.

## SECTION 8: Exposure control/personal protection measures

### 1. Control parameters

**National limit values**

**Occupational exposure limits (limits for exposure at work)**

lan d	Substanc e name	CAS No.	Note	Identific ation	TGG 8 ho ur [mg / m <sup>3</sup> ]	TGG 15 mi n [mg / m <sup>3</sup> ]	Cw [ppm ]	Cw [mg / m <sup>3</sup> ]	Source
The	Substance		R	AGW	1,25	2,5			TRGS 900

#### Format

CW Ceiling value is a **limit** value that should not be exceeded (ceiling value) r Respirable fraction

TGG 15 min Short-term value (limit value for short-term exposure): **limit** value that should not be exceeded and which applies, for a period of 15 minutes (unless otherwise stated)

TGG 8 hours Time weighted average (long-term **exposure limit** value): measured or calculated on **the** basis of an eight-hour re-reference period (unless otherwise stated)

### 2. Measures to control exposure

**Individual protective measures (personal protective equipment) Protection of the eyes/face**



Wear safety goggles with side guard.

**Protection of the skin**



#### 1. protection of the hands

Wear suitable gloves. Suitable according to EN 374 proven gloves against chemi-calories. In the case of special applications, it is recommended to check the chemical resistance of the safety gloves mentioned above together with the supplier of the gloves. The times are estimated values of measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat, etc. And a reduction in effec-tive layer thickness by stretching can lead to a significant reduction in breakthrough time. If in doubt, contact the manufacturer. With about 1.5 times larger/smaller layer thickness, the respective breakthrough time is doubled/halved. The data only applies to the pure substance. When transferred to mixtures of substances, they should only be considered as a guideline.

#### 2.type of material

NBR (Nitrile rubber)

**material thickness "0.11 mm**

# Safety data sheet

Under Regulation (EC) No. 1907/2006 (REACH), Changed By 2015/830/EU

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

### 1. breakthrough time of the glove material

"480 minutes (permeation level: 6)

### 2. other protective equipment

Insert rest periods for regeneration of the skin. Preventive skin protection (skin protection-creams) is recommended.

### Protection of respiratory organs



Respiratory protection is necessary in: Dust development. Particulate filter (EN 143). P1 (filters at least 80% of the air particles, color code: white).

### Control of environmental exposure

Prevent the product from entering drains, surface water or groundwater.

## HEADING 9: Physical and chemical properties

### 1. Prevent information on basic physical and chemical properties

Physical state

fixed (powder)

Color

white

Odourless

Odour threshold

No data available

### Other physical and chemical parameters

pH value

7.5 (water: 100 g/l, 25 °C)

Melting/freezing point

not determined

Starting point and cooking process

This information is not available.

Flashpoint

not applicable

Evaporation rate

no data available

Flammability (solid, gas)

This information is not

available Explosion limit values

1. lower explosion limit (LEL)

this information is not available

2. upper explosion limit (UEL)

this information is not available

Explosion limits of dust clouds

this information is not available

Vapour pressure

This information is not available.

Density

2.32 g/cm<sup>3</sup>

Vapour density

This information is not available.

Bulk density

~ 550 kg/m<sup>3</sup>

Relative density

There is no information available with this property.

# Veiligheidsinformatieblad

overeenkomstig Verordening (EG) Nr. 1907/2006 (REACH), gewijzigd door 2015/830/EU

## Calciumwaterstoffosfaat dihydraat 99+%, Ph.Eur., USP

artikelnummer: DCF3

### Solubility(eden)

Solubility in water	0.2 g/l at 25
°C Partition <u>coefficient</u>	
n-octanol/water (log KOW)	-2,55
Self-ignition temperature	There is no information available with this property.
Decomposition temperature	no data available
Viscosity not relevant (solids)	
Explosive dust	properties cannot be classified as explosive
Oxidizing properties	no

### 1. Other information

There is no further Information.

## HEADING 10: Stability and reactivity

### 1. Reactivity

This substance is not reactive under normal environmental conditions.

### 2. Chemical stability

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

### 3. Possible dangerous reactions

Violent reaction with: Highly oxidizing

### 4. Avoidable conditions

No specific conditions are known to be avoided.

### 5. Chemically interacting materials

There is no further information.

### 6. Dangerous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 1. Information on toxicological effects

#### Acute toxicity

Cannot be classified as acutely toxic.

Exposure routine	Endpoint	Value	Species of species	Source
Oral	LD50	10,000 mg/kg	Rat	
Dermal	LD50	"7,940 mg/kg	Rabbit	

#### Skin corrosion/irritation

Causes skin irritation. **Severe**

#### eye injury/eye irritation

Causes severe eye irritation.

# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 1 1907/2006

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

---

### Sensitization of the respiratory tract or skin

Cannot be classified as inhalation or skin allergen.

### Summary of cmr property evaluation

Cannot be classified as mutagenic in sex cells, either as carcinogenic or as a toxic substance for reproduction

#### 1. Specific target organ toxicity at single exposure

May cause irritation of the respiratory tract.

#### 2. Specific target organ toxicity at repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

### Danger of inhalation

Cannot be classified as dangerous in case of aspiration.

### Symptoms related to physical, chemical and toxicological properties

#### 3. After swallowing

no data is available

#### 4. In case of contact with the eyes

Causes severe eye irritation

#### 5. After inhalation

no data is available

#### 6. In

contact

with the

skin causes

skin irritation

Other

information

This information is based on the current state of our knowledge. Substance not yet fully tested

## SECTION 12: Ecological information

### 1. Toxicity

in accordance with 1272/2008/EC: Cannot be classified as hazardous to the aquatic environment.

### 2. Degradability process

The methods of determining biodegradability shall not apply to anorganic substances.

### 3. Bioaccumulation

Does not concentrate significantly in organisms. n-octanol/water (log KOW)-2,55

### 4. Mobility in the soil

No data is available.

### 5. Results of PBT and zPzB assessment

No data is available.

### 6. Other harmful effects

No data is available.



# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 1 1907/2006

**Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP**

Art.: DCF3

## SECTION 13: Removal instructions

### 1. Waste treatment methods



Dispose of this substance and its packaging as hazardous waste. Disposal of contents/packaging in accordance with local/regional/national/international regulations.

#### Information on wastewater discharge

Do not throw waste into the sink.

### 2. Relevant provisions on waste prevention

The allocation of the waste key numbers/waste markings must take place in accordance with AVV industry and process specific.

### 3. Comments

Waste is separated into the categories that can be handled separately by local or national waste management services. Please pay attention to the relevant national or regional provisions.

## HEADING 14: Transport information

1. UN number	(not subject to transport regulations)
2. Correct transport name in accordance with UN model regulations	irrelevant
3. Transport hazard class(s) Class	not relevant -
4. Packaging group	not relevant no packaging group assigned
5. Environmental hazards	none (not hazardous to the environment, according to the regulations for the transport of dangerous goods)

### 6. Special precautions for the user

There is no further information.

### 7. Bulk transport in accordance with Annex II to MARPOL and the IBC Code

The cargo is not intended to be transported in bulk.

### 8. Information for each of the UN regulations

#### 1. Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN)

Not subject to the ADR, RID and ADN.

#### 2. International Code for the Transport of Hazardous Substances by Sea (IMDG)

Not subject to the IMDG.

#### 3. International Civil Aviation Organisation (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 1 1907/2006

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

### SECTION 15: Regulations

#### 1. Specific safety, health and environmental regulations and legislation for the substance or mixture

##### Relevant provisions of the European Union (EU)

1. Regulation 649/2012/EU on imports and exports of dangerous chemicals (PIC)  
Not mentioned.

2. Regulation 1005/2009/EC on ozone depleting substances  
Not mentioned.

3. Regulation 850/2004/EC on persistent organic pollutants (POP)  
Not mentioned.

4. Restrictions in accordance with REACH, Annex XVII  
not listed

Name according to inventory	CAS No.	W.-%	Included in	Comments
Substances which contribute to eu-trophication (in particular, nitrates and phosphates)		100	(A)	
Metals and their compounds		100	(A)	

##### Legend

(A) Indicative list of the main pollutants

5. Limitations in accordance with REACH, Title VIII  
No.

6. List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list  
not listed

7. Seveso Directive

2012/18/EU (Seveso III)			
No.	Hazardous substance/hazard categories	Thresholds (tonnes) for the application of requirements for low-threshold inwards and high-threshold devices	Nuts
	not awarded		

8. Directive 75/324/EEC

on aerosol filling lot

Directive on decorative paints (2004/42/EC)

VOC content	0 %
-------------	-----

Directive on industrial emissions (VOC, 2010/75/EU)

VOC content	0 %
-------------	-----

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 1 1907/2006

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

### Regulation 166/2006/EC on the establishment of a European Register on Emissions and Transmission of Pollutants (PRTR)

not listed

### Directive 2000/60/EC establishing a framework for Community measures on water policy

Name according to inventory	CAS No.	Included in	Comments
Substances which contribute to eutrophication (in particular, nitrates and phosphates)		(A)	
Metals and their compounds		(A)	

#### Legend

(A) Indicative list of the main pollutants

### Regulation 98/2013/EU on the placing on the market and use of explosive precursors

not listed

### Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

### National regulations (Netherlands)

#### 1. General Assessment Methodology for Substances and Preparations (ABM)

##### Water security and remediation efforts

B little harmful to aquatic organisms

B

(4)

### SZW list of carcinogenic, mutagenic, and reproductively toxic substances, Ministry of Social Affairs and Employment

not listed

None of the ingredients are listed.

### National inventories

Dust is included in the following national inventories:

Country	National inventories	Status
Au	AICS	fabric is framed
Ca	DSL	fabric is framed
Cn	IECSC	fabric is framed
Eu	ECSI	fabric is framed
Eu	REACH Reg.	fabric is framed
Nz	NZIoC	fabric is framed
Ph	PICCS	fabric is framed
Tr	CICR	fabric is framed
Tw	TCSI	fabric is framed

#### Legend

AICS Australian Inventory of Chemical Substances  
CICR Chemical Inventory and Control Regulation  
DSL Domestic Substances List (DSL)  
ECSIEG Inventory (EINECS, ELINCS, NLP)

# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 1 1907/2006

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

### Legend

IECSInventory of Existing Chemical Substances Produced or Imported in China  
NZIoCNew Zealand Inventory of Chemicals  
PICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)  
REACH Reg. REACH registered substances  
TCSI Taiwan Chemical Substance Inventory

### 1. Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

## SECTION 16: Other information

### Abbreviations and acronyms

Afk.	Descriptions of the abbreviations used
Adn	Accord européen relatif au transport internationale des marchandises Dangereuses par voies de <b>navigation</b> Intérieures (European Convention on the International Transport of Dangerous Goods by Inland Waterways)
Adr	Accord européen relatif au transport internationale des marchandises Dangereuses par route (European Convention on the International Carriage of Dangerous Goods by Road)
AGW	occupational exposure limit value
Cas	Chemical Abstracts Service (database for chemicals and their <b>unique</b> number, the <b>CAS registration</b> number)
Clp	Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures
Cmr	Carcinogen, Mutagenic or Reproductive Toxic
Cw	ceiling value (ceiling value)
DGR	Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR
Einecs	<b>European</b> Inventory of Existing Commercial Chemical Substances
Elincs	European List of Notified Chemical Substances
Ghs	'Globally harmonised system for the classification and labelling of chemicals', developed by the United Nations
Iata	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for Aviation (IATA)
Icao	International Civil Aviation Organization (Internationale Organisatie voor Burgerluchtvaart)
Imdg	International Code for the Transport of Hazardous Substances by Sea (IMDG Code)
LD50	Lethal dose 50 %: the LD50 corresponds to the dose of a tested substance <b>in</b> which 50 % of the testobjec- ten die during a specified <b>time</b> interval
Marpol	International Convention for the Prevention of Pollution from Ships (Afk. marine polluter)
Nlp	No-Longer Polymer
Pbt	Persistent, Bioaccumulative and Toxic
Ppm	particles per million
Reach	Registration, Evaluation, Authorisation and Restriction of Chemicals
Rid	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Rules governing the international transport of dangerous goods by rail)
Svhc	very worrying substance
TGG 15 min	short-term value

# Safety data sheet

in accordance with Council Regulation (EC) No 1257/1999 of 19 July 2006

## Calcium hydrogen phosphate dihydrate 99+%, Ph.Eur., USP

Art.: DCF3

Afk.	Descriptions of the abbreviations used
TGG 8 hours	time weighted average
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
Vos	volatile organic compounds
Vpvb	very persistent and highly bioaccumulative

### Important literature references and data sources

1. Commission Regulation (EC) No 1251/2005 1907/2006 (REACH), amended by 2015/830/EU
2. Commission Regulation (EC) No 1251/2005 It should be a good time for the commission to take a look at the
3. Dangerous Goods Regulations (DGR) for Aviation (IATA)
4. International Code for the Transport of Hazardous Substances by Sea (IMDG)

### List of relevant sentences (code and fully written text as set out in Chapters 2 and 3)

Code	Text
H315	causes skin irritation
H319	causes severe eye irritation
H335	may cause irritation of the respiratory tract

### Disclaimer

We declare in our best conscience that the data contained in this safety data sheet correspond to our knowledge level at the time of the pressure. The information shall contain instructions for the safe handling of the product mentioned in this safety sheet during storage, processing, transport and disposal. The data is not transferable to other products. To the extent that the product is mixed or processed with other material, the data of this safety sheet are not necessarily transferable to the new material produced in this way.