

## according to Regulation (EC) No 1907/2006

Calcium nitrate, 50 g				
Print date: 14.04.2015	Product code: 9991211		Page 1 of 7	
SECTION 1: Identification of the s	ubstance/mixture and of the company/	undertaking		
1.1. Product identifier				
Calcium nitrate, 50 g				
CAS No:	13477-34-4			
EC No:	233-332-1			
1.2. Relevant identified uses of the su	bstance or mixture and uses advised again	nst		
Use of the substance/mixture				
Laboratory chemicals				
1.3. Details of the supplier of the safe	ty data sheet			
Seller				
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH			
Street:	Im Forstgarten 1			
Place:	D-66459 Kirkel			
Internet:	www.conatex.com			
Supplier				
Company name:	Carbolution Chemicals GmbH			
Street:	Im Stadtwald, Gebäude A1.2			
Place:	D-66123 Saarbrücken			
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232		
e-mail:	michael.bauer@carbolution-chemicals.de			
Internet:	www.carbolution-chemicals.de			
<u>1.4. Emergency telephone</u> number:	+49 (0)681 302-71232			

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: O - Oxidizing R phrases: Contact with combustible material may cause fire.

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

Hazard categories: Oxidising solid: Ox. Sol. 3 Hazard Statements: May intensify fire; oxidiser.

## 2.2. Label elements

Signal word: Pictograms:



Hazard statements

H272

May intensify fire; oxidiser.

Warning

GHS03



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**Precautionary statements** 

Keep/Store away from clothing/combustible materials.

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula:	CaN2O6 · 4H2O
Molecular weight:	236,15

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
233-332-1	Calcium nitrate	100 %
13477-34-4	O - Oxidizing R08	
	Ox. Sol. 3; H272	

Full text of R-, H- and EUH-phrases: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Change contaminated clothing.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water.

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**



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

Remove all sources of ignition.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up dust-free and set down dust-free. Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool place. Keep away from sources of ignition. - No smoking.

#### Advice on storage compatibility

Keep away from combustible material.

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

### 8.1. Control parameters

#### 8.2. Exposure controls

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

## Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

#### Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

#### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

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

## 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	colourless
Odour:	No data available

pH-Value:

#### Changes in the physical state

Revision date: 25.03.2015

Test method

6,5



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Melting point:	44 °C	
Initial boiling point and boiling range:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Flash point:	No data available	
<b>Flammability</b> Solid: Gas:	No data available No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Ignition temperature:	No data available	
Auto-ignition temperature Solid: Gas:	No data available No data available	
Vapour pressure: Vapour pressure:	No data available No data available	
Density: Water solubility: (at 20 °C)	1,82 g/cm³ 1293 g/L	
Partition coefficient:	No data available	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
9.2. Other information		
Solid content:	No data available	

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

No data available

## 10.4. Conditions to avoid

In case of impact or pressure influence: Explosion hazard. Remove all sources of ignition. Keep away from heat. Ignition hazard.

## 10.5. Incompatible materials

Keep away from: material, combustible.

## 10.6. Hazardous decomposition products

No data available

## **SECTION 11: Toxicological information**



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### 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

Toxicological data are not available.

## Acute toxicity

Toxicological data are not available.

## Irritation and corrosivity

No data available

#### Sensitising effects

No data available

## Severe effects after repeated or prolonged exposure

No data available

### Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

#### Specific effects in experiment on an animal

No data available

### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## Practical experience

## Observations relevant to classification

No data available

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

#### 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

No data available

#### **Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

## Waste disposal number of waste from residues/unused products



## according to Regulation (EC) No 1907/2006

160506       WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of or containing dangerous substances, including mixtures of laboratory chemicals; consisting of scheduping (Including separately collected municipal packaging waste); packaging containing residues of or contaminated packaging usate/; packaging montaining residues of or contaminated packaging substances classified as hazardous waste.         Veste disposition of contaminated packaging (Including separately collected municipal packaging waste); packaging containing residues of or contaminated packages in the same way as the substance stored.         Contaminated packages may be recycled. Handle contaminated packages in the same way as the substance stored.         UN1454         14.1 UN number:         UN1454         14.2 UN proper shipping name;         CALCUM NITRATE         14.1 UN number:         UN1454         14.2 UN proper shipping name;         CALCUM NITRATE          Contermixed packages </th <th colspan="4">according to Regulation (EC) No 1907/2006</th>	according to Regulation (EC) No 1907/2006				
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14.2. UN proper shipping name:CALCIUM NITRATE14.3. Transport hazard class(es):5.114.4. Packing group:IIIHazard label:5.1Classification code:O2Special Provisions:208Limited quantity:5 kgOther applicable information (inland wars transport) E1E1UN1454	<u>14.1. UN nı</u>	imber:	UN1454		
14.3. Transport hazard class(es):       5.1         14.4. Packing group:       III         Hazard label:       5.1         Classification code:       O2         Special Provisions:       208         Limited quantity:       5 kg         Other applicable information (inland waterways transport)         E1         Marine transport (IMDG)         14.1. UN number:       UN1454			CALCIUM NITRATE		
14.4. Packing group:IIIHazard label:5.1Classification code:O2Special Provisions:208Limited quantity:5 kgOther applicable information (inland waterways transport) E1E1Marine transport (IMDG)14.1. UN number:UN1454					
Hazard label:5.1Hazard label:02Classification code:02Special Provisions:208Limited quantity:5 kgOther applicable information (inland waterways transport) E1E1Marine transport (IMDG)14.1. UN number:UN1454					
Classification code:       O2         Special Provisions:       208         Limited quantity:       5 kg         Other applicable information (inland waterways transport)         E1         Marine transport (IMDG)         14.1. UN number:       UN1454			51		
Special Provisions:       208         Limited quantity:       5 kg         Other applicable information (inland waterways transport)         E1         Marine transport (IMDG)         14.1. UN number:       UN1454					
Other applicable information (inland waterways transport)         E1         Marine transport (IMDG) <u>14.1. UN number:</u> UN1454					
E1 Marine transport (IMDG) <u>14.1. UN number:</u> UN1454	-		5 kg		
Marine transport (IMDG)       14.1. UN number:     UN1454	Other appli		vaterways transport)		
14.1. UN number: UN1454	Marine transp				
	14.1. UN nu	ımber:	UN1454		
14.2. UN proper shipping name: CALCIUM NITRATE			CALCIUM NITRATE		
14.3. Transport hazard class(es): 5.1					



## according to Regulation (EC) No 1907/2006

Calcium nitrate, 50 g				
Print date: 14.04.2015	Product code: 9991211 Page 7			
14.4. Packing group:				
Hazard label: Special Provisions: Limited quantity: EmS:	5.1 208 5 kg F-A, S-Q			
Other applicable information (marine tra E1	ansport)			
Air transport (ICAO)				
<u>14.1. UN number:</u> <u>14.2. UN proper shipping name:</u>	UN1454 CALCIUM NITRATE			
14.3. Transport hazard class(es):	5.1			
14.4. Packing group:	III			
Hazard label: Special Provisions: Limited quantity Passenger:	5.1 A83 10 kg			
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	J	559 25 kg 563 100 kg		
Other applicable information (air transp E1 : Y546	ort)			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	no			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU regulatory information				
Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)				
National regulatory information				

Water contaminating class (D):

3 - highly water contaminating

## **SECTION 16: Other information**

## Relevant R-phrases (Number and full text)

08 Contact with combustible material may cause fire.

Relevant H- and EUH-phrases (Number and full text)

H272 May intensify fire; oxidiser.