CALCIUM NITRATE TETRAHYDRATE 99-102.0% ACS

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### Section 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name: CALCIUM NITRATE TETRAHYDRATE 99-102.0% ACS

CAS number: 13477-34-4

EINECS number: 233-332-1

Product code: GPC8647

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

Use of substance / mixture: PC21: Laboratory chemicals.

## 1.3. Details of the supplier of the safety data sheet

Select School Supplies The Old Granary Berghill House Oswestry SY11 4PD 01691 770366 sales@selectschoolsupplies.co.uk



#### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Eye Dam. 1: H318

Most important adverse effects: Harmful if swallowed. Causes serious eye damage.

## 2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.

H318: Causes serious eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark



Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

## 3.1. Substances

Chemical identity: CALCIUM NITRATE TETRAHYDRATE 99-102.0% ACS

CAS number: 13477-34-4

EINECS number: 233-332-1

Contains: Formula : CaN2O6 · 4H2O

Molecular weight : 236.15 g/mol

# Section 4: First aid measures

## 4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for

breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: No data available.

Eye contact: Risk of serious damage to eyes.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

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

Immediate / special treatment: No data available.

#### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

Exposure hazards: Not applicable.

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#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

#### Section 6: Accidental release measures

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

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

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

Clean-up procedures: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in

suitable, closed containers for disposal.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Hygroscopic.

Suitable packaging: Not applicable.

## 7.3. Specific end use(s)

Specific end use(s): No special requirement.

#### Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

#### 8.2. Exposure controls

Engineering measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands
	before breaks and at the end of workday.
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face
	particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup

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	to engineering controls. If the respirator is the sole means of protection, use a full-face		
	supplied air respirator. Use respirators and components tested and approved under		
	appropriate government standards such as NIOSH (US) or CEN (EU).		
Hand protection:	Full contact		
	Material: Nitrile rubber		
	Minimum layer thickness: 0.11 mm		
	Break through time: 480 min Splash contact		
	Material: Nitrile rubber		
	Minimum layer thickness: 0.11 mm		
	Break through time: 480 min Use proper glove removal technique (without touching		
	glove's outer surface) to avoid skin contact with this product. Dispose of contaminated		
	gloves after use in accordance with applicable laws and good laboratory practices.		
	Wash and dry hands.		
Eye protection:	Face-shield. Safety glasses. Use equipment for eye protection tested and approved		
	under appropriate government standards such as NIOSH (US) or EN 166(EU).		
Skin protection:	Complete suit protecting against chemicals. The type of protective equipment must be		
	selected according to the concentration and amount of the dangerous substance at the		
	specific workplace.		
Environmental:	Do not let product enter drains.		

# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State:	State: Crystalline	
Colour:	Colourless	
Melting point/range°C:	44 °C - dec.	

Relative density: 1.82 g/cm3

**pH:** 5.5 - 7.0

9.2. Other information

Other information: Not applicable.

# Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with combustible material (paper, wool, oil).

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#### 10.5. Incompatible materials

Materials to avoid: Strong reducing agents.

### **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of

calcium oxides.

## Section 11: Toxicological information

# 11.1. Information on toxicological effects

## Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Serious eye damage/irritation	OPT	Based on test data

#### Symptoms / routes of exposure

Skin contact:	No data available.
Eye contact:	Risk of serious damage to eyes.
Ingestion:	No data available.
Inhalation:	No data available.
Delayed / immediate effects:	No data available.
Other information:	Not applicable.

### Section 12: Ecological information

12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	> 98.9	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

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12.6. Other adverse effects	
Other adverse effects:	No data available.
Section 13: Disposal consideration	ations
13.1. Waste treatment methods	
Disposal operations:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or
	mix the material with a combustible solvent and burn in a chemical incinerator equipped
	with an afterburner and scrubber.
Recovery operations:	
	Dispose of as unused product.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.
Section 14: Transport informat	ion
Transport class:	This product does not require a classification for transport.
Section 15: Regulatory information	ation
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
Specific regulations:	This safety datasheet complies with the requirements of Regulation (EC) No.
	1907/2006.
15.2. Chemical Safety Assessn	
	A chemical safety assessment has not been carried out for the substance or the mixture
Chemical salety assessment.	by the supplier.
Section 16: Other information	
Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and 3:	H302: Harmful if swallowed.
	H318: Causes serious eye damage.
Legal disclaimer:	H318: Causes serious eye damage. The above information is believed to be correct but does not purport to be all inclusive
Legal disclaimer:	