

CALCIUM CHLORIDE HEXAHYDRATE

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

1.1. Product identifier

Product name: CALCIUM CHLORIDE HEXAHYDRATE

CAS number: 7774-34-7 **Product code:** B8AF76268

Synonyms: CALCIUM CHLORIDE 6H20

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

Use of substance / mixture: PROC15: Use as laboratory reagent

1.3. Details of the supplier of the safety data sheet

Company name: Philip Harris Ltd

2 Gregory Street

Hyde Cheshire SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506 **Fax:** +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Manufacturer: Eurolab Supplies Limited

Road 5

Winsford Industrial Estate

Winsford Cheshire CW1 3AZ

Tel: 01606 594593 Fax: 01606 594603

Email: rachel@eurolabsupplies.co.uk

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319

Classification under CHIP: Xi: R36

Most important adverse effects: Causes serious eye irritation.

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2.2. Label elements

Label elements under CLP:

Hazard statements: H319: Causes serious eye irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P280: Wear eye protection.

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

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CALCIUM CHLORIDE HEXAHYDRATE

CAS number: 7774-34-7

Contains: Molecular formula: CaCl2. 6H2O

Molecular weight (g/mol): 219.08 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Remove

contaminated, saturated clothing immediately. In case of skin reactions, consult a

Doctor

Eye contact: Bathe the eye with running water for 15 minutes. Protect Uninjured eye. Remove contact

lenses, if present and easy to do. Consult a doctor.

Ingestion: Rinse mouth thoroughly with water. Give nothing to eat or drink. Do not induce vomiting.

Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Keep Patient warm. If

breathing is irregular or stopped, administer artifical respiration. Immediately call the

POISON CENTRE or a doctor.

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

Skin contact: No data available. May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product itself does not burn. Co-ordinate fire-fighting measures to the fire

surroundings.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire maybe liberated: Carbon dioxide, Carbon monoxide, Hydrogen Chloride,

Sulphur oxides.

5.3. Advice for fire-fighters

Advice for fire-fighters: DO NOT fight fire when fire reaches explosives. Wear self-contained breathing

apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: In case of major fire and large quantities: Remove persons to safety. Wear a

self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Environmental precautions: Do not allow to enter into soil/subsoil. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Spilled product must never be returned to the original container for recycling. Take up

carefully when dry. Avoid generation of dust. Clean contaminated objects and areas

thoroughly observing environmental regulations. Collect in closed and suitable

containers for disposal.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered,

arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventillated by technical

means.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Storage temperature 15-25°C Store in a cool, dry place. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over

the use of personal protective equipment. If handled uncovered use local exhaust

ventilation.

Respiratory protection: Respiratory protection (filtering half face mask DIN EN 149) is required at aerosol or

mist formation.

Hand protection: For short term hand contact use nitrile rubber gloves, 0.12mm thick and with a break

through time of 480 mins. For long term hand contact wear nitrile rubber gloves,

0.38mm thick with a breakthrough time of 480mins.

Eye protection: Safety glasses with side-shields.

Skin protection: When using do not eat, drink or smoke. Avoid contact with skin and eyes. Wash hands

before breaks and after work. Protective clothing. Ensure safety shower is to hand.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: White

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: Soluble at 20°C

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Melting point/range°C: anhydrous 29.54°C Relative density: 1.71g/cm³ (25°C)

pH: 5-7

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

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10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	-	LD50	1000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: No data available. May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

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12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose according to legislation. Consult the appropriate local waste disposal expert

about waste disposal. Send to a hazardous waste incinerator facility under observation

of official regulations.

Waste code number: 16 05 07

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: NR

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

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 s.3: H319: Causes serious eye irritation.

R36: Irritating to eyes.

Legend to abbreviations: PNEC = predicted no effect level

DNEL = derived no effect level

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LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.