

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** CALCIUM NITRATE**CAS number:** 13477-34-4**Product code:** A66710**1.2. Relevant identified uses of the substance or mixture and uses advised against****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**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Ox. Sol. 3: H272**Classification under CHIP:** O: R8; Xi: R36**Most important adverse effects:** May intensify fire; oxidiser.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H272: May intensify fire; oxidiser.**Signal words:** Warning**Hazard pictograms:** GHS03: Flame over circle**Precautionary statements:** P210: Keep away from . - No smoking.

P280: Wear.

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2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CALCIUM NITRATE

Contains: Molecular formula $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$

Molecular Weight (g/mol) 200.12g/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: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

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. Coordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Pyrolysis products, toxic

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: Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. In case of fire & large quantities remove persons to safety.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

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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 dust-free and set down dust-free. 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: All work processes must always be designed so that the following is as low as possible
- inhalation, skin contact and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

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: 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: Protective gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

Eye protection: Safety glasses with side-shields.

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: Oxidising (by EC criteria)

Solubility in water: 1470 g/l

Viscosity: No data available

Melting point/range°C: 42

Relative density: 1.86

[cont...]

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

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: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

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 substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

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: UN1454

14.2. UN proper shipping name

Shipping name: CALCIUM NITRATE

14.3. Transport hazard class(es)

Transport class: 5.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Water hazard class (WGK)

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.

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Phrases used in s.2 and 3: H272: May intensify fire; oxidiser.

R8: Contact with combustible material may cause fire.

R36: Irritating to eyes.

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.