
SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: CALCIUM CHLORIDE
- REACH Registration Number : 01-2119494219-28

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

- Use of the substance/mixture: As brine for refrigeration plants; ice and dust control on roads; in cement production; in chemical synthesis; in washing and cleaning products; in fertiliser formulations; in absorbants; in water treatment products; in products such as ph-regulators, flocculants, precipitants, neutralisation agents; as a laboratory reagent; in the manufacture of textiles, leather, fur; in the manufacture of non-metallic mineral products, e.g. plasters, cement; in the manufacture of pulp, paper and paper products; in the manufacture of plastics and rubber product; in the manufacture of computer, electronic and optical products, electrical equipment.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Palatine Paints & Chemicals Limited
- Address of Supplier: 55 Smallbrook Lane, Leigh, Lancashire, WN7 5PZ
- Telephone: 01942 884122
- Responsible Person: Safety@palatinepaints.co.uk
- Email: sales@palatinepaints.co.uk

1.4 Emergency telephone number

- Emergency Telephone: 01942 884122 (not 24 hrs)
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SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- CLP: Eye Irrit. 2
- CHIP:

2.2 Label elements



- Signal Word: Warning
- Hazard statements
H319 - Causes serious eye irritation.
- Precautionary statements
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P401 - Store in accordance with local/regional/national/international regulations
P501 - Dispose of contents/container to local/regional/national/international

SECTION 2 Hazards identification (....)

regulations

2.3 Other hazards

- No further relevant information available.
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SECTION 3 Composition/information on ingredients

3.1 Substances

- Calcium Chloride (Anhydrous)
CAS Number: 10043-52-4
 - Calcium Chloride (Dihydrate)
CAS Number: 10035-04-08
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SECTION 4 First aid measures

4.1 Description of first aid measures

- General Information
- Inhalation
Supply fresh air; consult doctor in case of symptoms.
- Ingestion
Rinse out mouth and then drink plenty of water.
DO NOT induce vomiting; call for medical help immediately
- Contact with skin
Immediately rinse with water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- Contact with eyes
Rinse opened eye for several minutes under running water. Then consult a doctor.

Check for and remove any contact lenses

4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
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SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Use fire extinguishing methods suitable to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Not combustible
- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus
 - Wear fully protective suit
 - Do not inhale explosion gases or combustion gases
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

SECTION 6 Accidental release measures (....)

- Avoid formation of dust
- Ensure adequate ventilation

6.2 Environmental Precautions

- Do not allow to enter sewers/ surface or ground water
- Do not allow to penetrate the ground/ soil.

6.3 Methods and material for containment and cleaning up

- Pick up mechanically
- Send for recovery or disposal in suitable receptacles

6.4 Reference to other sections

- Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.
 - See Section 7 for safe handling
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SECTION 7 Handling and storage**7.1 Precautions for safe handling**

- Prevent formation of dust
- Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

- Prevent any seepage into the ground
- Unsuitable materials: Ferritic steels- danger of pitting corrosion
- Store in cool, dry conditions in well sealed receptacles
- Protect from humidity and water

7.3 Specific end use(s)

- See Section 1.2
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SECTION 8 Exposure controls/personal protection**8.1 Control parameters**

- DNEL (Inhalation) Short term exposure 10 mg/m³
- DNEL (Inhalation) Long term exposure 5 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- If ventilation is insufficient wear chemical respirator
- Wear protective gloves
- Wear tightly fitting safety goggles/ faceshield.
- Wear suitable protective clothing
- Do not breath dust
- Keep away from food, drink and animal feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of workday.
- Avoid contact with the eyes and skin
- Do not eat, drink, smoke or sniff while working
- Ensure that eyewash station and safety showers are close to the workstation location.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Form: Solid
- Colour: White
- Odour: Odourless
- pH: -value (100 g/l) at 20 deg C 8-10
- Melting point/Range: 782 °C
- Boiling Point/Range: 1601 °C
- Density: Density 2.15 g/cm³ at 20 deg C
- Solubility in water: Water solubility 20 °C 740 g/l

9.2 Other information

- No further relevant information available.
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SECTION 10 Stability and reactivity

10.1 Reactivity

- Stable under normal conditions

10.2 Chemical stability

- Stable under normal conditions
- The substance decomposes on heating at high temperature and on burning producing toxic and corrosive fumes.

10.3 Possibility of hazardous reactions

- The solution in water is a weak base
- Attacks zinc in presence of water forming highly flammable hydrogen gas
- Dissolves violently in water with liberation of much heat
- Calcium chloride liquors can cause pitting of and corrosion of some grades of stainless steel and under high temperature and stress conditions can promote stress corrosion cracking.
- The substance can react dangerously with: bromine trifluoride; boron trioxide and calcium oxide; zinc- hydrogen.

10.4 Conditions to avoid

- No further relevant information available.

10.5 Incompatible materials

- No further relevant information available.

10.6 Hazardous Decomposition Products

- Hydrogen chloride (HCl)
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) > 2000 mg/kg
- LD50 (dermal, rabbit) > 5000 mg/kg
- LC50/4 h (Inhalation, rat) > 160mg/l
- Eye contact: Irritating effects
- Skin contact No irritant effects
- Sensitization: Not sensitising
- Chronic toxicity Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the nasal mucous membrane, resulting in ulcerations.

SECTION 12 Ecological information

12.1 Toxicity

- No further relevant information available.

12.2 Persistence and degradability

- No further relevant information available.

12.3 Bioaccumulation Potential

- Product is not expected to bioaccumulate

12.4 Mobility in soil

- No further relevant information available.

12.5 Results of PBT and vPvB assessment

- Not Classified as PBT/vPvB by current EU criteria.

12.6 Other Adverse Effects

- Slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Dispose of the product, packaging and any residuals in compliance with local and national regulations
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SECTION 14 Transport information

14.1 UN Number

- UN No.: None

14.2 UN Proper Shipping Name

- Proper Shipping Name: None

14.3 Transport hazard class(es)

- Hazard Class: None

14.4 Packing group

- Packing Group: None

14.5 Environmental hazards

- None

14.6 Special precautions for user

- Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

- Not applicable
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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

The information in this SDS was obtained from sources which we believe are reliable. However, the

SECTION 16 Other information (....)

information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

--- end of safety datasheet ---
