

1. Product Identification.

Product Name: Calcium Chloride.
Other Name: Calcium brine
Type of Product: Hygroscopic flakes.
Known Uses: De-icing, Dust Control, Paper and Pulp, Refrigeration.

2. Composition/ Information on Ingredients.

Chemical Composition: Calcium Chloride
Chemical Formula: $\text{CaCl}_2\cdot 2\text{H}_2\text{O}$
CAS Number: 10043-52-4
Materials: Anhydrous/ Dihydrate/ Hexahydrate.

3. Hazards Identification.

Classification and Indication of general nature of risks:
Irritant.


Effect of Overexposure:
Eye Contact: Conjunctivitis.
Skin Contact: Irritation, Eczema.
Inhalation: Irritation.
Ingestion: Nausea, vomiting.

Precautions:
Eye Contact: Goggles.
Skin Contact: Gloves and overalls.
Inhalation: Dust mask.

Special Protection Information:
Calcium Chloride affects leather boots and gloves. Rubber boots and gloves recommended.

4. First Aid Measures.

General advice: Remove contaminated clothing.



Skin Contact: Wash thoroughly with soap and water, preferably under a shower. Remove contaminated clothing as washing proceeds. Continue washing for at least 10 minutes.

Eye Contact: Immediately flood eyes for at least 30 minutes, holding the eye open. Obtain medical attention immediately.

Inhalation: Remove casualty to fresh air immediately.

Ingestion: Wash out mouth with water. Induce vomiting if necessary. If rapid recovery does not occur, obtain medical attention immediately.

5. Fire Fighting Measures.

Fire Fighting Procedures/ Extinguishing Media:
No special procedures. Use water.

6. Accidental Release Measures.

Steps to be Taken in Case Material is Released or Spilled:
Sweep up large spillage for land fill dumping. Smaller spillages and residues flush away with water.

Known Environmental Impact Data:
Dangerous to aquatic life at high concentrations.

Waste Disposal Methods:
Landfill.

7. Handling & Storage.

Handling: Handle in accordance with good industrial hygiene and safety practise.

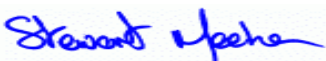
Storage: Keep tightly closed in a dry and cool place. If storage is for 6 months, packaging should be UV resistant. In bulk, in piles or silos protect from airborne contaminates and moisture. (Cover with PE or PVC).

8. Exposure Controls/ Personal Protection.

See section 3.

9. Physical and Chemical Properties.

- (a) Appearance/State at 20⁰C: White deliquescent flakes.
- (b) Melting Point: Anhydrous 772⁰C
- (c) Odour: None.



- (d) Boiling Point/Range: > 1600⁰C
(e) Specific Gravity (Water=1): 2.15 BD 0.835.
(f) pH: Product supplied diluted.
(g) Solubility in Water: 1.1 Kg/ Kg.

10. Stability & Reactivity.

Stability:

Stable under normal conditions. Cannot polymerise.

Decomposition Temperature/ Dangerous Decomposition Products:

Loses water of crystallisation at about 200⁰C

11. Toxicological Information.

N/A

12. Ecological Information.

Dangerous to aquatic life at high concentrations.

13. Disposal Considerations.

Product can be disposed of by dissolving in water to drain with a large excess of water.

14. Transport Information.

Not classified as hazardous under transport regulations.

15. Regulatory Information.

Label: Irritant.


R phrases: R 36 - Irritating to eyes.

S phrases: S 22 - Do not breathe dust.
S 24 - Avoid contact with skin.

Classification for conveyance:

Not dangerous for conveyance.

16. Other Information.



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