

SAFETY DATA SHEET
CALCIUM CHLORIDE SOLUTION 35%

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Issued: 23/11/2011
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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: CALCIUM CHLORIDE SOLUTION 35%

Datasheet Number: S1403 2. 0. 0

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

- Eye Irrit. 2

2.2 Label elements



- Signal Word: Warning

Hazard phrases: - Causes serious eye irritation.

Precautionary Phrases: - Wash hands and working surfaces thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Calcium chloride	35% w/w	10043-52-4	233-140-8	R36	Xi

*See Section 16

[cont..]

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4. FIRST AID MEASURES

4.1 Description of first aid measures

- No known delayed effects.
- IF INHALED:
 - Remove to fresh air and keep at rest in a position comfortable for breathing.
 - Seek medical attention if symptoms persist.
- IF ON SKIN (or hair):
 - Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES:
 - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Seek immediate medical attention.
- IF SWALLOWED:
 - Rinse mouth. Do NOT induce vomiting.
 - Give 200-300mls (half pint) water to drink.
 - Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Causes severe eye irritation.

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Not classified as flammable.

5.3 Advice for fire fighters

- Wear appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Wear suitable protective clothing.

6.2 Environmental Precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.
- Clean spillage area thoroughly with plenty of water.
- Wash to waste with plenty of water

6.4 Reference to other sections

[cont..]

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Avoid contact with eyes and skin.
- Wear suitable protective equipment.
- Do not eat, drink or smoke when using this product.
- Handle and open container with care (S18)

7.2 Conditions for safe storage, including any incompatibilities

- Bulk storage - store in mild or carbon steel, polypropylene, GRP, HDPE AT NORMAL TEMPERATURES.
- Keep away from moist air (S14)

7.3 Specific end use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

- No exposure limits have been set for this substance
- Recommended Limits WEL 10 mg/m³ (total dust) 8 hours : 4 mg/m³ (respiratory dust)

8.2 Exposure controls

- No special precautions are required for this product
- If practicable, engineering controls should be provided where airborne concentrations exceed exposure limits Occupational exposure controls
- Wear suitable protective clothing (S36)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Odour: Odourless.
- Appearance: Colourless liquid
- pH 8-10
- Boiling point 100-120 °C
- Vapour pressure - negligible.
- Vapour density - not applicable
- Miscible in water
- Specific gravity 1.155 - 1.420 g/cm³
- Not flammable
- Viscosity 2 - 10 mPa.s at 20 deg C

9.2 Other information

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10. STABILITY AND REACTIVITY

- 10 .1 Reactivity:** Hygroscopic substance
- 10 .2 Chemical stability:** Stable under normal conditions.
- 10 .3 Possibility of hazardous reactions:** No hazardous reactions known if used for its intended purpose
- 10 .4 Conditions to avoid:** Avoid contact with moisture
- 10 .5 Incompatible materials:** Strong oxidising agents
Strong reducing agents
- 10 .6 Hazardous Decomposition Products:** No hazardous decomposition products known

11. TOXICOLOGICAL INFORMATION

11 .1 Information on toxicological effects

- LD50 (oral) : 2301 mg/kg
LD50 (skin, rabbit) 5000 mg/kg
No known adverse health effects.
- Inhalation:** Not irritating to the respiratory system
- Contact with skin:** No irritating effect.
- Contact with eyes:** Causes irritation to the eyes
- Carcinogenicity:** Not classified as a carcinogen
- Teratogenicity:** No evidence of reproductive effects
- Mutagenicity:** No evidence of mutagenic effects

12. ECOLOGICAL INFORMATION

- 12 .1 Toxicity:** LC50 (fish) 4630 mg/l (96 hr)
EC50 (algae) 2900 mg/l (72 hr)
- 12 .2 Persistence and degradability:** Not applicable
- 12 .3 Bioaccumulation Potential:** Does not bioaccumulate.
Dissociates in water into ions.
- 12 .4 Mobility in soil:** Miscible in water.
- 12 .5 Results of PBT and vPvB assessment:** - Not a PBT according to REACH Annex XIII
- 12 .6 Other Adverse Effects**

13. DISPOSAL CONSIDERATIONS

- 13 .1 Waste treatment methods:** Disposal should be in accordance with local, state or national legislation
Do not mix with acid (S50)

14. TRANSPORT INFORMATION

- 14 .5 Environmental hazards**
- 14 .6 Special precautions for user:** No special precautions are required for this product
Not classified as hazardous for transport
- 14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

[cont..]

15. REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment

Hazard symbols: No significant hazard.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Text of R and S phrase codes used in this safety data sheet:- R36: Irritating to eyes.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.