	SAFETY DATA SHEET (SDS)	
	CALCIUM CHLORIDE SOLUTION (35-40%)	
	Document #: SCIL-SDS-06	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

- 1.1 Product identifier:** Calcium Chloride Solution (35 - 40%)
- Synonym(s):** Calcium dichloride; Calcium chloride
- Reach No.** 01-2119494219-28-XXXX
- 1.2 Recommended use:** Laboratory chemicals, Manufacture of substances
- Restrictions on use:** Not determined.
- 1.3 Details of the supplier of the Safety data sheet Manufacturer**
- Company Name** Sitara Chemical Industries Ltd.
- Address:** 32-K.M, Sheikhpura Road, Faisalabad
- Telephone Number:** (+92) 041-4689141-5
- Emergency Number** (+92) 041-4689141-5 (Ext.1161)
- Website** <http://www.sitara.com.pk>

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture.

Classification according to Regulation (EC) No 1272/2008

Physical hazards Not Classified
 Health hazards Acute Tox. 4 - H302 Eye Irrit. 2 - H319
 Environmental hazards Not Classified

2.2 Label Elements

Labeling according Regulation (EC) No 1272/2008

EC number 233-140-8

Pictogram



Signal word Warning

Hazard statement(s)


H302 Harmful if swallowed.
 H319 Causes serious eye irritation.

Precautionary statement(s)

Immediately wash skin with plenty of water after handling.
 Wear eye protection/ face protection.
 IF IN EYES: Immediately rinse with water for 15 minutes.
 If eye irritation persists: Get medical advice/ attention
 Supplemental Hazard Statements None

2.3 Other hazards:

This substance/mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

Formula : CaCl₂
Molecular weight : 110.9 g/mol

Calcium chloride dihydrate			
Component	Classification	Concentration	
CAS-No.	0043-52-4-8	Eye Irrit. 2; H319	<= 30-45 %
EC-No.	233-140-8		
Index-No.	017-013-00-2		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice: Show this material safety data sheet to the doctor in attendance.
If inhaled: Get medical attention if any discomfort continues. Remove person to fresh air and keep comfortable for breathing.
In case of skin contact: Not irritating. Rinse immediately with plenty of water.
In case of eye contact: Rinse out with plenty of water. Remove contact lenses. Immediately call in ophthalmologist
If swallowed: Get medical attention immediately. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical.

4.2 Most important symptoms and effects, both acute and delayed

General information No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Product is not flammable.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures


Personal precautions Spilled material may cause a slipping hazard. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

6.2 Environmental precautions. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3 Methods and materials for containment and cleaning up

Clean contaminated objects and areas thoroughly, observing environmental regulations.

6.4 Reference to other sections:

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Follow precautions for safe handling described in this safety data sheet. For persona protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in tightly-closed, original container. Product may become a solid at temperatures below 0°C (32°F) (concentrations above 36% calcium chloride).

7.3 Specific end use(s) Product shipped/handled hot can cause thermal burns. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits No exposure limits known for ingredient(s)

8.2 Exposure controls

Protective equipment



Eye/face protection: Use equipment for eye protection.

Skin protection: Chemical resistant gloves.

Body Protection: Protective clothing.

Respiratory protection: Required when dusts are generated.

Other: Wear suitable protective clothing.

Dispose of contents/ container in accordance with national regulations. **Control of environmental exposure:** Do not let product enter drains.


9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Liquid.
 Colour : Straw. Light brown.
 Odour : Mild Organic Odour
 pH : 5 - 9 @ 10% Solution
 Freezing Point : -7°C 35% 16°C 40%
 Initial boiling point and range : 115 - 120°C
 Flash point : Not applicable.
Upper/lower limit on flammability or explosive limits No data available.

Vapour pressure : Not applicable.
 Specific gravity : 1.357 - 1.416 @ 25°C
 Solubility(ies) : Completely Miscible with water
 Organic solvents : 0.0%

9.2 Other safety information: : No data available

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10. Chemical Stability & Reactivity Information

- 10.1 Reactivity:** No data available
- 10.2 Chemical Stability:** The product is chemically stable under standard ambient conditions.
- 10.3 Possibility of hazardous reactions:** No potentially hazardous reactions known
- 10.4 Conditions to avoid:** No information available.
- 10.5 Incompatible Materials:**
Corrosive to some metals, avoid contact with metals such as brass, ferrous metals, and mild steel.
Flammable hydrogen may be generated from contact with metals such as: Zinc. Sodium
- 10.6 Hazardous Decomposition Products:** No known hazardous decomposition products

11. TOXICOLOGICAL INFORMATION


- 11.1 Information on toxicological effects**
- Toxicological effects : Harmful if swallowed.
- Acute toxicity:**
- Symptoms: If ingested in large quantities, Stomach/intestinal disorders
- Skin corrosion/irritation** : No skin irritation
- Serious eye damage/eye irritation** : Eye irritation
- Respiratory or skin sensitization** : No data available
- Germ cell mutagenicity** : No data available
- Carcinogenicity** : This product is not classified as a carcinogen by NTP, IARC or OSHA.
- Reproductive toxicity:** Did not cause birth defects or any other fetal effects in laboratory animals.
- Specific target organ toxicity - single exposure:** No data available
- Specific target organ toxicity - repeated exposure:** No data available
- 11.2 Additional Information**
- To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** No information available
- 12.2 Persistence and degradability** No information available
- 12.3 Bio accumulative potential:** No information available
- 12.4 Mobility in soil:** No information available
- 12.5 Results of PBT and vPvB assessment**
This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.
- 12.6 Other adverse effects** Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
- General information:
Reuse or recycle if possible. Dispose of waste product or used containers in accordance with local regulations Dispose of waste via a licensed waste disposal contractor. Control run-off water by containing and keeping it out of sewers and watercourses.

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14. TRANSPORT INFORMATION

- 14.1 UN number:**
ADR/RID: - IMDG: - IATA:
- 14.2 UN proper shipping name**
ADR/RID: Not dangerous goods.
IMDG: Not dangerous goods
IATA: Not dangerous goods
- 14.3 Transport hazard class (es)**
ADR/RID: - IMDG: - IATA: -
- 14.4 Packaging group**
ADR/RID: - IMDG: - IATA: -
- 14.5 Environmental hazards**
ADR/RID: No IMDG Marine pollutant: No IATA: no
- 14.6 Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
This material safety data sheet complies with the Regulation (EC) No. 1907/2006.
- 15.2 Chemical Safety Assessment:** A Chemical Safety Assessment was not carried out for this substance.

16. LABELING INFORMATION

Abbreviations and acronyms used in the safety data sheet

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association"(IATA).
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association.
CAS: Chemical Abstracts Service.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Disclaimer:

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.