	SAFETY DATA SHEET (SDS)	
	CALCIUM CHLORIDE DIHYDRATE	
	Document #: SCIL-SDS-07	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

- 1.1 Product identifier:** Calcium chloride dihydrate
- 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

H319 Eye irritation (Category 2)

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

- 2.2 Label Elements**
Labeling according Regulation (EC) No 1272/2008

Pictogram



Signal word Warning

Hazard statement(s)

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 Substances

Formula : $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
Molecular weight : 147.01 g/mol

Calcium chloride dihydrate			
Component		Classification	Concentration
CAS-No.	10035-04-8	Eye Irrit. 2; H319	<= 100 %
EC-No.	231-668-3		
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: After inhalation move to fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact:

Rinse out with plenty of water. Remove contact lenses. Immediately call in ophthalmologist

If swallowed:

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Use extinguishing measures that are appropriate to local circumstances and environment.

Unsuitable extinguishing media: For this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas.

Calcium oxides.


Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

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Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation.

Wear **Personal protective equipment (PPE)**.

6.2 Environmental precautions. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Observe possible material restrictions. Dispose of properly. Clean up affected area.

6.4 Reference to other sections:

For disposal see 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 : Tightly closed, do not store near water.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters.

8.2 Exposure controls

Personal 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.

Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state / Form: Solid/ Granular.


Color: white

Odor: No data available

pH : 4.5 – 8.5 at 50 g/l at 20 °C

Melting point/freezing point: Melting point/range: 176 °C

Initial boiling point and boiling range: 1965 °C

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Flash Point:	No data available
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	No data available.
Vapor pressure:	0.01 hPa at 20 °C
Vapor density:	No data available
Relative density:	No data available
Solubility in water:	147 g/l at 20 °C
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	No data available.
Viscosity: Viscosity, kinematic / dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
9.2 Other safety information:	No data available

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:	Exothermic reaction with, boron trifluoride, vinyl methyl ether water
10.4	Conditions to avoid:	No information available.
10.5	Incompatible Materials:	No data available
10.6	Hazardous Decomposition Products:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	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:	No data available
	Reproductive toxicity:	No data available
	Specific target organ toxicity - single exposure:	No data available
	Specific target organ toxicity - repeated exposure:	No data available
	Aspiration hazard:	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
	Toxicity to fish

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LC50 - Lepomis macrochirus (Bluegill sunfish) - 10.650 mg/l- 96 h

Remarks: (anhydrous substance) (IUCLID)

12.2 Persistence and degradability No data available

12.3 Bio accumulative potential: No data available

12.4 Mobility in soil: No data 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

Product

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

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.