



MATERIAL SAFETY DATA SHEET

SDS/MSDS

CALCIUM CHLORIDE 0.02M (0.04N) STANDARDIZED SOLUTION traceable to NIST

Synonyms :

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

1.1 Product identifier

Chemical Name :	CALCIUM CHLORIDE 0.02M (0.04N) Standardized Solution, traceable to Nist		
Product Code :	B-00642	Product form :	Mixture
CAS Number :	10043-52-4	EC Number :	
Grade :		EC Index Number :	
Chemical Formula :	CaCl ₂	HSN Code :	28272000
Synonyms :			

Chemical Structure :



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

Use of the substance/mixture :	Laboratory chemicals, Manufacture of substances
Uses advised against :	No additional information available

1.3 Details of the supplier of the safety data sheet

Company identification :	5455 Nicholson Road, Science Market Ambala Cantt, 133001 - Haryana +91 82952 41953 info@biofinechemical.com - www.biofinechemical.com
--------------------------	--

1.4 Emergency Contact Details

Phone Number :	+91 99921 51495 (10.00am - 06.30pm) (Office Hours)
----------------	--

SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Not classified	
Classification according to Directive 67/548/EEC or 1999/45/EC	
Not classified	
Adverse physicochemical, human health and environmental effects	
No additional information available	
2.2 Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
No labelling applicable	
2.3 Other hazards	
Other hazards :	No additional information available

SECTION 3: Composition/information on ingredients				
3.1. Substance				
Not applicable				
3.2. Mixture				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18- 5 (EC no) 231-791-2	75 - 99	Not classified	Not classified
Calcium chloride	(CAS No) 10043- 52-4 (EC no) 233-140-8 (EC index no) 017- 013-00-2	1 - 5	Xi; R36	Eye Irrit. 2, H319
Full text of R- and H-phrases: see section 16				

SECTION 4: First aid measures	
4.1 Description of first aid measures	
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact :	Take off contaminated clothing. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact :	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion :	Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2 Most important symptoms and effects, both acute and delayed	
Symptoms relating to use :	No additional information available
4.3 Indication of any immediate medical attention and special treatment needed	
General information :	Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1 Extinguishing media	
Suitable extinguishing media :	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media :	Do not use a heavy water stream.
5.2 Special hazards arising from the substance or mixture	
Special procedures :	No additional information available
5.3 Advice for firefighters	
Protection during firefighting :	No additional information available

SECTION 6: Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	

Protective equipment	Use personal protective equipment as required
Emergency procedures	Stop release.
6.2 Environmental precautions	
Avoid release to the environment.	
6.3 Methods and material for containment and cleaning up	
Methods for cleaning up :	Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4 Reference to other sections	
Reference :	No additional information available

SECTION 7: Handling and storage	
7.1 Precautions for safe handling	
Hygiene measures :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2 Conditions for safe storage, including any incompatibilities	
Storage conditions :	Store in a well-ventilated place. Keep container tightly closed.
7.3 Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	
No additional information available	
8.2 Exposure controls	
Hand protection :	protective gloves
Eye protection :	Chemical goggles or safety glasses
Skin and body protection :	Wear suitable protective clothing
Respiratory protection :	Wear appropriate mask

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
Physical state :	Liquid Colour
Colour :	Clear Colorless.
Odour :	No data available
Odour threshold :	No data available
pH value :	6 - 8 at 25 °C
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	No data available
Freezing point :	No data available
Boiling point :	100 °C
Flash point :	No data available

Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Flammability (solid, gas) :	No data available
Vapour pressure :	No data available
Relative vapour density at 20°C :	No data available
Density :	1 g/cm3
Solubility :	Water: Completely miscible
Log Pow :	No data available
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available
Explosive properties :	No data available
Oxidising properties :	No data available
Explosive limits :	No data available
9.2 Other information	
No additional information available	

SECTION 10: Stability and reactivity
10.1 Reactivity
No additional information available
10.2 Chemical stability
Stable under normal conditions of use.
10.3 Possibility of hazardous reactions
No additional information available
10.4 Conditions to avoid
Heat.
10.5 Incompatible materials
No additional information available
10.6 Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity :	Not classified Irritation : Not classified pH: 6 - 8 at 25 Â°C Corrosivity : Not classified pH: 6 - 8 at 25 Â°C Sensitisation : Not classified Repeated dose toxicity : Not classified Carcinogenicity : Not classified Mutagenicity : Not classified Toxicity for re
Skin corrosion/irritation :	

Serious eye damage/irritation :	
Respiratory or skin sensitisation :	
Germ cell mutagenicity :	
Carcinogenicity :	

SECTION 12: Ecological information	
12.1 Toxicity	
Toxicity information :	No additional information available
12.2 Persistence - degradability	
Persistence - degradability :	No additional information available
12.3 Bioaccumulative potential	
Bioaccumulative potential :	No additional information available
12.4 Mobility in soil	
Mobility in soil :	No additional information available
12.5 Results of PBT and vPvB assessment	
No additional information available	
12.6 Other adverse effects	
Environmental precautions :	No additional information available

SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
Additional Info :	No additional information available

SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR) :	Not applicable
UN-No. (IMDG) :	Not applicable
UN-No. (IATA) :	Not applicable
UN-No. (ADN) :	Not applicable
UN-No. (RID) :	Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR) :	Not applicable
Proper Shipping Name (IMDG) :	Not applicable
Proper Shipping Name (IATA) :	Not applicable
Proper Shipping Name (ADN) :	Not applicable
Proper Shipping Name (RID) :	Not applicable
Transport document description (ADR) :	Not applicable
Transport document description (IMDG) :	Not applicable

Transport document description (IATA) :	Not applicable
Transport document description (ADN) :	Not applicable
Transport document description (RID) :	Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) :	Not applicable
IMDG	
Transport hazard class(es) :	Not applicable
IATA	
Transport hazard class(es) :	Not applicable
ADN	
Transport hazard class(es) :	Not applicable
RID	
Transport hazard class(es) :	Not applicable

14.4. Packing group	
Packing group (ADR) :	Not applicable
Packing group (IMDG) :	Not applicable
Packing group (IATA) :	Not applicable
Packing group (ADN) :	Not applicable
Packing group (RID) :	Not applicable
14.5. Environmental hazards	
Dangerous for the environment :	No
Marine pollutant :	No
Other information :	No supplementary information available
14.6. Special precautions for user	
- Overland transport	
No data available	
- Transport by sea	
No data available	

- Air transport
No data available
- Inland waterway transport
No data available
- Rail transport
No data available
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1 EU-Regulations :
Contains no substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.
15.1.2. National regulations
Germany
AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strong
15.2 Chemical Safety Assessment
No additional information available

SECTION 16: Other Information	
Full text of R-, H- and EUH-phrases:	
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2	
H319 Causes serious eye irritation	
EUH210 Safety data sheet available on request	
R36 Irritating to eyes	
Xi Irritant	