



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifiers

Product name : **Calcium Chloride Solution**

Product Number : REF **100989**

Brand : Bio/Data Corporation

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

Identified uses:

IVD

For in vitro diagnostic use; professional laboratory use by qualified personnel only

Laboratory chemicals. Reagent for coagulation tests.

1.3 Details of the supplier of the safety data sheet:

Company : Bio/Data Corporation
155 Gibraltar Road
Horsham, PA 19044
UNITED STATES

Telephone: +1 215 441-4000
Fax: +1 215 443-8820
Email: customer.service@biodatacorp.com
Web Site: www.biodatacorp.com

1.4 Emergency telephone

Emergency Phone #: Follow laboratory blood/ infectious hazard protocol
+1 215 441-4000 (0830 – 1630)

An ISO 13485 Registered Company

155 Gibraltar Road, Horsham, PA 19044 U.S.A.

Worldwide: (215) 441-4000 U.S.A.: (800) 257-3282 Fax Worldwide: (215) 443-8820

www.biodatacorp.com e-mail: customer.service@biodatacorp.com

SECTION 2: HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A), H319

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

2.2 Label Elements:

Pictogram:



Signal Word:

Warning

Hazard statement(s):

H319

Causes serious eye irritation.

Precautionary statement(s):

P264

Wash skin thoroughly after handling.

P280

Wear eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

2.3 Other Hazards:

None

Restricted to professional users

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS
3.1 Substances

Synonyms:

Calcium Chloride Solution

Molecular weight:

110.98 g/mol

Formula:

CaCl₂

CAS-No.:

10043-52-4

EC-No.:

233-140-8

3.2 Mixtures

Component	Identifier	Classification	Formula
Calcium Chloride	Cas No.: 10043-52-4	Eye Irrit. 2A; H319	$\geq 10 - < 20$ %

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures



General	Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 further information available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture:

Hydrogen chloride gas
Calcium oxide
Not combustible.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information:

No further information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Hygiene measures

Handle in accordance with good industrial hygiene and laboratory safety practices. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters:

Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls:

Appropriate engineering controls:

Restricted to professional users. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

General:

The usual precautionary measures are to be adhered to when handling chemicals.

Eye/Face protection:

Goggles recommended during refilling.

Skin protection:

For permanent contact, gloves are recommended.

Glove Material: Nitrile Rubber Glove Thickness: > 0.1 mm

To avoid skin problems, reduce the wearing of gloves to the required minimum.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection:

Not Required.

Respiratory protection:

Not Required.

Control of environmental exposure:

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties:**

a)	Appearance Form	:	Liquid Color: Colorless
b)	Odor	:	No Data Available
c)	Odor Threshold	:	No Data Available
d)	pH	:	~7.0
e)	Melting point / freezing point	:	0.0 °C (32.0 °F)
f)	Initial boiling point and boiling range	:	100.0 °C (212.0 °F)
g)	Flash point	:	No Data Available
h)	Evaporation rate	:	No Data Available
i)	Flammability (solid, gas)	:	No Data Available
j)	Upper/Lower flammability or explosive limits	:	No Data Available
k)	Vapor pressure	:	No Data Available
l)	Vapor density	:	No Data Available
m)	Relative density	:	1.00 g/cm ³
n)	Water solubility	:	Completely Miscible
o)	Partition coefficient - n-octanol/water	:	No Data Available
p)	Autoignition temperature	:	No Data Available
q)	Decomposition temperature	:	No Data Available
r)	Viscosity	:	No Data Available
s)	Explosive properties	:	Not classified as explosive
t)	Oxidizing properties	:	None

9.2 Other safety information:No Other Data Available

SECTION 10: STABILITY AND REACTIVITY10.1 Reactivity:

No Data Available

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No Data Available

10.4 Conditions to avoid:

No Data Available

10.5 Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:No data available. In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION11.1 Information on toxicological effects:

<i>Acute toxicity</i>	:	Oral:	No Data Available
		Inhalation:	No Data Available
		Dermal:	No Data Available

Skin corrosion/irritation : No Data Available

Serious eye damage/eye irritation: No Data Available

Respiratory or skin sensitization : No Data Available

Germ cell mutagenicity : No Data Available

<i>Carcinogenicity</i>	:	<p>IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.</p>
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.
<u>Components</u>		
calcium chloride		
<i>Acute toxicity</i>	:	<p>Oral: No Data Available</p> <p>Symptoms: After uptake of large quantities: Stomach/intestinal disorders, Nausea</p> <p>Symptoms: Possible damages; mucosal irritations LD50 Dermal - Rabbit - male and female - > 5,000 mg/kg</p> <p>Remarks: (ECHA) - No data available</p>
<i>Skin corrosion/irritation</i>	:	<p>Skin - Rabbit</p> <p>Result: No skin irritation - 4 h (OECD Test Guideline 404)</p>
<i>Serious eye damage/eye irritation:</i>	:	<p>Eyes - Rabbit</p> <p>Result: Moderate eye irritation (OECD Test Guideline 405)</p>
<i>Respiratory or skin sensitization :</i>	:	No Data Available

<i>Germ cell mutagenicity</i>	:	Test Type:	Mutagenicity (mammal cell test): chromosome aberration.
		Test system:	Chinese hamster fibroblasts
		Result:	negative
		Test Type:	Ames test
		Test system:	S. typhimurium
		Result:	negative
		Remarks:	(Lit.)
Reproductive toxicity	:		No Data Available
Specific target organ toxicity	:	single exposure:	Acute oral toxicity - After uptake of large quantities; Stomach/intestinal disorders, Nausea Acute inhalation toxicity - Possible damages; mucosal irritations
Specific target organ toxicity	:	repeated exposure:	No Data Available
Aspiration hazard	:		No Data Available

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity : Mixture - No Data Available
- 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:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Endocrine disrupting properties : No Data Available
- 12.7 Other adverse effects : No Data Available

Components

calcium chloride

Toxicity to fish:

static test LC50 - Pimephales promelas (fathead minnow) - 4,630 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates:

static test EC50 - Daphnia magna (Water flea) - 2,400 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae:

EC50 - Pseudokirchneriella subcapitata - 2,900 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

EC50 - Daphnia magna (Water flea) - 610 mg/l - 21 d

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging: Dispose of as unused product.

SECTION 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

US DOT: 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: No Data Available

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2008.

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

No Data Available

15.2 Chemical Safety Assessment:

For this product a chemical safety assessment was not carried out

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Water	CAS-No. 7732-18-5	Revision Date
calcium chloride	10043-52-4	

water	CAS-No. 7732-18-5	Revision Date
calcium chloride	10043-52-4	

New Jersey Right To Know Components

water	CAS-No. 7732-18-5	Revision Date
calcium chloride	10043-52-4	

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: OTHER INFORMATION

Restrictions on use: No Data Available

Advice: No Data Available

Literary Reference: No Data Available

Further information:

Preparation Date: April 1, 2023

Revision Level and Date: Revision A, February 1, 2024

Abbreviations and Acronyms:

SDS:	Safety Data Sheet
PBT:	Persistence, Bioaccumulation, Toxicity
vPvB:	Very persistent and very bio accumulative
STOT	specific target organ toxicity
SCBA:	Self-contained breathing apparatus
ADR:	Agreement concerning the carriage of dangerous goods by road
RID	Regulation concerning the international carriage of dangerous goods by rail
IMDG	International Maritime Dangerous Goods code
IATA	International air transport organization
DOT	US Department of Transportation
ANSI	American National Standards Institute
OSHA	Occupational Safety & Health Administration (US)

Information related to the Regulation EC/1272/2008

This product is intended for **IN VITRO diagnostic use only**. NOT FOR INJECTION OR INGESTION. The information herein is believed to be correct as of the date hereof and excludes any guarantee related with the final use given to the product, being the recipient the last responsible for observing the local laws applicable in each case.