



Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

### 1. Identification

Product Code : 90354

**Company Name** : Advent Chembio Private Limited

Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

NAVI MUMBAI - 400 701.

E-mail : info@adventchembio.com

**WEBSITE** : <u>www.adventchembio.com</u>

Company Phone Number : 022-27690837

### 2. Composition/Information on Ingredients

IngredientCAS NoPercentCALCIUM CHLORIDE10043-52-490-100 %

#### 3. Hazards Identification

#### Hazard classification

**Health hazards** 

Acute toxicity (Oral) : Category 4
Serious eye damage/eye irritation : Category 2
Specific target organ toxicity - single : Category 3

exposure

Labels elements

Hazard symbol



Signal word : Warning.

**Hazard statement** : Harmful if swallowed.

Causes serious eye irritation.

May cause respiratory irritation

**Precautionary statement** 

**Prevention** : Wash hands thoroughly after handling. Do not eat, drink or smoke

when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-

ventilated area.

**Response** : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

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





Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

Continue rinsing. If eye irritation persists: Get medical

advice/attention. IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing.

Storage: : Store in a well-ventilated place. Keep container tightly closed. Store

locked up.

Disposal : Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result in

**GHS** classification

None.

#### 4. First Aid Measures

**General information** : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel

unwell.

**Inhalation** : Move to fresh air. Get medical attention if symptoms persist.

**Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if

symptoms occur. Wash contaminated clothing before reuse.

**Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If

easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

Most important symptoms/effects,

acute and delayed

Indication of immediate medical

attention and special treatment

needed

May cause irritation to skin, eyes, and respiratory tract.

Treat symptomatically. Symptoms may be delayed.





CAS No.: 10043-52-4 **Product Name:** Calcium chloride Version: 0

#### 5. Fire fighting measures

General fire hazards The product is non-combustible.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media None known.

During fire, gases hazardous to health may be formed. Specific hazards arising from the

chemical

Special protective equipment and precautions for firefighters

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers

exposed to flames with water until well after the fire is out.

Special protective equipment for Firefighters must use standard protective equipment including fire-fighters

flame retardant coat, helmet with face shield, gloves, rubber boots,

and in enclosed spaces, SCBA.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency

procedures

Methods and material for containment and cleaning up

**Notification Procedures** 

Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Prevent entry into waterways, sewer, basements or confined areas.

Inform authorities if large amounts are involved.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Avoid discharge

into drains, water courses or onto the ground.

#### 7. Handling and Storage

**Precautions for safe handling** Use personal protective equipment as required. Avoid contact with

eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly

after handling.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed. Store in a well-ventilated place.

Store in a dry place.





Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

#### 8. Exposure Controls Personal Protection

**Control parameters** 

**Occupational exposure limits** None of the components have assigned exposure limits.

**Appropriate engineering controls** No data available.

Individual protection measures, such as personal protective equipment

**General information** Good general ventilation (typically 10 air changes per hour) should be

> used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne

levels to an acceptable level.

**Eye/face protection** Use tight fitting goggles if dust is generated.

**Hand protection** Chemical resistant gloves.

Other Wear suitable protective clothing and gloves.

**Respiratory protection** In case of inadequate ventilation, use respiratory protection.

**Hygiene measures** Provide eyewash station and safety shower. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

### 9. Physical and Chemical Properties

**Appearance** White Solid Granules White to light grey.

Odor Odorless

рΗ 8 - 9 Aqueous solution

Melting point/freezing point 772 °C Initial boiling point and boiling range 1.670 °C

**Flash Point** No data available No data available. Vapor pressure Vapor density No data available **Relative density** 2.15 (20 °C)

Soluble Solubility in water

Solubility (other) No data available.

CaCl2 Formula

**Molecular Weight** 110.99 g/mol





Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

### 10. Stability and Reactivity

**Reactivity**: No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable; however, may decompose if heated.

**Possibility of hazardous reactions** : Hazardous polymerization does not occur. The substance is hygroscopic

and will absorb water by contact with the moisture in the air.

**Conditions to avoid** : Excessive heat. Water, moisture.

**Incompatible materials** : Strong oxidizing agents.

**Hazardous decomposition products** : Oxides of calcium. Hydrogen Chloride.

### 11. Toxicological Information

Information on likely routes of exposure

Ingestion : May be harmful if swallowed. May cause irritation of the

gastrointestinal tract.

**Inhalation** : May cause irritation to the respiratory system.

Skin contact: Causes mild skin irritation.Eye contact: Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 1,000 mg/kg

Dermal Product
 Inhalation Product
 Repeated dose toxicity Product
 No data available
 No data available

**Skin corrosion/irritation Product**: Causes mild skin irritation.

Serious eye damage/eye irritation

**Product** 

Causes serious eye irritation.

**Respiratory or skin sensitization**: Not a skin sensitizer.

**Product** 

**Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation

of Carcinogenic Risks to Humans

DIOXANE

No carcinogenic components identified.

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

No carcinogenic components identified.

**DIOXANE** 

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050

Germ cell mutagenicity

No carcinogenic components identified.





Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

None known

Respiratory tract irritation.

In vitro Product
 In vivo Product
 Reproductive toxicity Product
 No mutagenic components identified.
 No mutagenic components identified.
 No components toxic to reproduction.

**Specific target organ toxicity - single** 

**exposure Product** 

Specific target organ toxicity -

repeated exposure Product

Aspiration hazard Product : Not classified Other effects : None known.

### 12. Ecological Information

### **Ecotoxicity**

Acute hazards to the aquatic environment:

**Fish Product** : No data available.

Specified substance(s): CALCIUM : LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3,930 -

CHLORIDE 5,360 mg/l Mortality **Aquatic invertebrates Product**: No data available.

Specified substance(s): CALCIUM : LC 50 (Water flea (Daphnia magna), 72 h): 759 mg/l Mortality

**CHLORIDE** 

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

**Biodegradation Product**: There are no data on the degradability of this product.

**BOD/COD ratio Product** : No data available.

Bioaccumulative potential

**Bioconcentration factor (BCF)** : No data available on bioaccumulation.

**Product** 

Partition coefficient n-octanol /

water (log Kow) Product

or (log Kow) Product

Mobility in soil
 The product is water soluble and may spread in water systems.
 The product components are not classified as environmentally

No data available.

hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.



Page 7 of 8

Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

### 13. Disposal consideration

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state,

or local laws.

Contaminated packaging : Since emptied containers retain product residue, follow label

warnings even after container is emptied.

### 14. Transport information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging	Marine Pollutant
				group	
DOT	Not regulated.				
IMDG	Not regulated.				
IATA			Not regulated.		

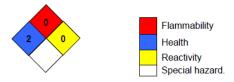
### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

### 16. Other Information

### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe





Product Name: Calcium chloride CAS No.: 10043-52-4 Version: 0

Issue Date:01/08/2014

Version: 0

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).