

3401 Grays Ferry Avenue, Building 197, Philadelphia PA 19146

 Website: www.allevi3D.com


 Email: info@allevi3D.com

Safety Data Sheet

1. Identification

Product Name	Calcium Chloride
Substance/Mixture	Substance
Company:	Allevi, Inc.
Address	3401 Grays Ferry Avenue, Building 197, Philadelphia PA 19146
Telephone	207-891-9635 Hours of operation: Monday – Friday, 9:00 am – 6:00 pm
Email	support@allevi3D.com

2. Hazards Identification

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.
Label Elements, including precautionary statements	
Pictograms or hazard symbols	
Signal word	Warning
Hazard Statements	
H319	Causes serious eye irritation
Precautionary statements	
H319	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. If eye irritation persists: Get medical advice/attention.
Hazards not otherwise classified (HNOC) or not covered by FG	

3. Composition/Information on Ingredients

Substances		
Formula	CaCl ₂	
Molecular Weight	110.98 g/mol	
CAS-No.	10043-52-4	
EC No.	233-140-8	
Index-No	017-013-00-2	
Hazardous Components		
Component	Classification	Concentration
Calcium Chloride	Eye Irrit. 2A; H319	90 – 100%

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

4. First Aid Measure

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
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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.
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.
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards arising from the substance or mixture	No data available
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary
Further Information	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
Environmental precautions	Do not let product enter drains
Methods and materials for containment and cleaning up.	Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections.	For disposal see section 13.

7. Handling and Storage

Precautions for Safe Handling	
Technical Measures:	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place.
Specific end use(s)	No further relevant information available
Packaging Material:	Comply with laws

8. Exposure Controls/Personal Protection

Components with workplace control parameters	Contains no substances with occupational exposure limit values
Appropriate engineering controls	General industrial hygiene practice
Personal Protective equipment	
Eye/Face Protection	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin Protection	Handle with gloves. 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.
Skin Protection: Full contact	Material: Nitrile rubber Minimum layer thickness: 0.11 mm
Skin Protection: Splash contact	Material: Nitrile rubber Minimum layer thickness: 0.11 mm
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario	
Body Protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	Respiratory protection is not required. Where protection from nuisance, levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Do not let product enter drains.

9. Physical and Chemical Properties

Appearance	Form: crystalline Color: white
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	772 °C (1,422 °F)
Initial boiling point and boiling range	1,670 °C (3,038 °F)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	0.01 hPa (0.01 mmHg) at 20 °C (68 °F)
Vapour density	No data available
Relative density	2.150 g/cm ³
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available

Conditions to avoid	Exposure to moisture may affect product quality
Incompatible materials	Strong acids, borane/boron oxides, zinc, calcium oxide, methyl vinyl ether, calcium chloride is attacked by bromine trifluoride
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions – hydrogen chloride gas, calcium oxide Other decomposition products – No data available In the event of fire: see section 5.

11. Toxicological Information

Acute toxicity	
LD50 Oral – Rat -> 2,301 mg/kg (OECD Test Guideline 401)	
Inhalation	No data available
Dermal	No data available
No data available	
Skin corrosion/irritation	Skin – Rabbit Result: No skin irritation
Serious eye damage/eye irritation	Eyes – Rabbit Result: Moderate eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Rat Unscheduled DNA Synthesis
Carcinogenicity	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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
Additional Information	RTECS: EV9800000
To the best of our knowledge ,the chemical, physical and toxicological properties have not been thoroughly investigated.	

12. Ecological Information

Toxicity to fish	LC50 – Lepomis macrochirus – 10,650 mg/l – 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – Daphnia magna (water flea) -2,400 mg/l – 48 h (OECD Test Guideline 202)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No data available

13. Disposal Considerations

Waste treatment methods	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company
Contaminated packaging	Dispose of as unused product

14. Transport Information

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. Regulatory information

Sara	
Section 302	No chemicals in this material are subject to the reporting of SARA Title III, Section 302.
Section 313 (specific toxic chemical listings):	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.
311/312 Hazards	Acute health hazard
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know Components	
Calcium chloride	CAS-No: 10043-52-4
New Jersey Right to Know Components	
Calcium chloride	CAS-No: 10043-52-4

16. Other Information

Full text of H-statements referred to under sections 2 and 3	
Eye irrit.	Eye irritation
H319	Causes serious eye irritation.
HMIS Rating	
Health Hazard	2
Chronic Health Hazard	0
Flammability	0
Physical Hazard	0
NFPA Rating	
Health Hazard	2
Fire Hazard	0
Reactivity Hazard	0

This information is based on our present knowledge. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility. Allevi, Inc. and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. This document and information shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.