



CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: 100mM CaCl₂

Issue date: 23-August-2023

Revision date: -

Version #: 01

SECTION 1 Chemical product and company identification

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|--------------------------|--|
| Chinese name of chemical | 100mM 氯化钙 |
| English name of chemical | 100mM CaCl ₂ |
| Company Name | UltraVision Technology Limited |
| Address | Room 1210, Unit 3, Long De Zi Jin mansion, No. 186 Li Tang Road, Changping district, Beijing ,PR China |
| Telephone | 17717469190 |
| Website | dovetailgenomics.com |
| Emergency phone number | +86 4001 2001 74 |
| Access code | 334943 |

Recommended use and Limitations on use

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| Recommended use | Molecular Biology Kit. |
| Limitations on use | Use in accordance with manufacturer's recommendations. |
| Issue date | 23-August-2023 |
| Revision date | - |
| Supersedes date | 22-August-2023 |

SECTION 2 Hazards identification

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| Emergency overview | Health injuries are not known or expected under normal use. |
| GHS hazard categories | Not classified. |
| Label elements | |
| Pictograms | None. |
| Signal word | None. |
| Hazard statement | The mixture does not meet the criteria for classification. |
| Precautionary statement | |
| Prevention | Observe good industrial hygiene practices. |
| Response | Wash hands after handling. |
| Safety storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Physical and chemical hazards | The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted. |
| Health hazards | Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation. |
| Environmental hazards | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| Supplemental information | None. |

SECTION 3 Composition/information on ingredients

| Substance/mixture | Mixture | |
|--|-------------------|------------|
| Chemical name | Concentration (%) | CAS Number |
| 二水氯化钙 Calcium chloride, dihydrate | 1.1 | 10035-04-8 |
| Other components below reportable levels | 98.9 | |

SECTION 4 First aid measures

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| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |

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| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms and health effects | Direct contact with eyes may cause temporary irritation. |
| Personal protection for first-aid responders | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| Notes to physician | Treat symptomatically. |

SECTION 5 Fire-fighting measures

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| Extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
| Extinguishing media to avoid | None known. |
| Specific hazards | During fire, gases hazardous to health may be formed. |
| Special fire fighting procedures | Move containers from fire area if you can do so without risk. |
| Protection of fire-fighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| General fire hazards | No unusual fire or explosion hazards noted. |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel | Wear appropriate personal protective equipment. |
| For emergency responders | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| Clean-up methods and materials and containment measures | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| Prevention of secondary hazards | Clean up in accordance with all applicable regulations. |

SECTION 7 Handling and storage

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| Handling | Observe good industrial hygiene practices. |
| Storage | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

SECTION 8 Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s).

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| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Monitoring methods | Follow standard monitoring procedures. |
| Engineering measures | Good general ventilation 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. |
| Personal protective equipment | |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hand protection | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. |
| Eye protection | Wear safety glasses with side shields (or goggles). |
| Skin and body protection | Wear suitable protective clothing. |
| Hygiene measures | 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. |

SECTION 9 Physical and chemical properties

Appearance

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| Physical state | Liquid. |
| Form | Liquid. |
| Color | Not available. |
| Odor | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Boiling point, initial boiling point, and boiling range | Not available. |
| Flash point | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Other data | |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

SECTION 10 Stability and reactivity

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| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11 Toxicological information

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| Acute toxicity | Not expected to be acutely toxic. |
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| Components | Species | Test Results |
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| Calcium chloride, dihydrate (CAS 10035-04-8) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | > 1000 mg/kg |
| Routes of exposure | Eye contact. Skin contact. Ingestion. Inhalation. | |
| Symptoms | Direct contact with eyes may cause temporary irritation. | |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitizer | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. | |

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| Toxic to reproduction | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity following single exposure | Not classified. |
| Specific target organ toxicity following repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | None known. |

SECTION 12 Ecological information

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| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulation | No data available. |
| Mobility in soil | No data available for this product. |
| Other hazardous effects | No data available. |

SECTION 13 Disposal considerations

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| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| Local disposal regulations | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |

SECTION 14 Transport information

CNDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Not regulated.

Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

Provision on the Environmental Administration of New Chemical Substances

China Inventory of Existing Chemical Substances

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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| Other regulations | This safety data sheet conforms to the following laws, regulations and standards: Measures for the Safe Use of Chemicals in Workplaces General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009) Regulations on Labor Protection in Workplaces Where Toxic Products Are Used Packing Symbol of Dangerous Goods(GB190-2009) Regulations on the Control over Safety of Dangerous Chemicals Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008) Packing - Pictorial Marking for Handling of Goods (GB/T191-2008) |
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International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information**References**

EPA: AQUIRE database
GB6944-2012: Classification and Code of Dangerous Goods.
GB12268-2012: List of Dangerous Goods.
IARC Monographs. Overall Evaluation of Carcinogenicity
NLM: Hazardous Substances Data Base

Disclaimer

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