

## Safety Data Sheet

# Crosslinking Agent

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product name:** Crosslinking Agent (CaCl<sub>2</sub>)

**1.2 Brand:** Foldink

**1.3 Product Number:** #CA10001

**1.4 General use:** For use as an ionic crosslinker of bioinks for 3D bioprinting, cell encapsulation, tissue engineering, regenerative medicine and drug delivery research. Not for human use, for research only.

**1.5 Company Address:**

**Foldink Corp.**  
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Frisco, Texas 75034, USA  
Tel.: +1 857 302 4934  
Email: info@foldink.bio  
www.foldink.bio

**Foldink LLC**  
22 Orbeli Brothers Street, 0028,  
Yerevan, Republic of Armenia  
Tel.: +37441041013  
Email: info@foldink.bio  
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### 2. HAZARDS IDENTIFICATION

Potential health effects: Not a hazardous substance or mixture.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	EC Class	Composition
Calcium Chloride	10043-52-4	233-140-8	H319 (For dry calcium chloride powder)	0.57%
PBS buffer solution	None	None	Not classified as hazardous	

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## 4. FIRST AID MEASURES

**4.1 In case of eye contact:** Flush eyes with water as a precaution. Consult a physician.

**4.2 In case of skin contact:** Wash with soap and plenty of water. Consult a physician.

**4.3 If swallowed:** Rinse mouth with plenty of water. Consult a physician.

**4.4 If inhaled:** Move person to fresh air. If any breathing difficulty or discomfort occurs and persists, obtain medical attention.

**4.5 Notes to a medical doctor:** Show this safety data sheet to the doctor in attendance. This product has low oral and inhalation toxicity. It is not a skin sensitizer and is nonirritating to the skin and eyes.

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## 5. FIREFIGHTING MEASURES

**5.1 Extinguishing media:** No data available.

**5.2 Fire/explosion hazards:** No data available.

**5.3 Firefighting procedures:** No data available.

**5.4 Flammable limits:** No data available.

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## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment, and emergency procedures:**

Avoid dust formation. Avoid breathing vapors, mist or gas. 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:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**7.2 Conditions for safe storage:** Keep the container tightly closed in a dry and well-ventilated place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Exposure limits:** N/A.

### 8.2 Personal protection equipment

**a) Eyes and face:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**b) Respiratory:** Respiratory protection is not required. Where protection from nuisance levels of dust is desired, use type N95 (US) or P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**c) Protective clothing:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**d) Gloves:** 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES.

<b>Appearance:</b>	Translucent liquid
<b>Upper/lower flammability:</b>	No data available
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not applicable
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>pH:</b>	6.5-7.4
<b>Relative density:</b>	1 g/mL
<b>Melting point:</b>	Not applicable
<b>Boiling point:</b>	Around 100°C
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability:</b>	No data available
<b>Partition coefficient:</b>	No data available
<b>Autoignition temp:</b>	No data available
<b>Decomposition temp:</b>	No data available
<b>Viscosity:</b>	No data available

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## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	Freezing.
<b>Reactivity:</b>	No data available.
<b>Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition</b>	No data available. In the event of fire, see section 5.

**products:**

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:**

Oral LD50: 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.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**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.

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## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:** No data available.

**12.2 Persistence and degradability:** No data available.

**12.3 Bioaccumulative 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 Other adverse effects:** No data available.

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### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Product:** Dispose according to applicable local, state, and federal regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

**U.S. Department of Transportation (DOT):** Not dangerous goods.

**International Maritime Dangerous Goods (IMDG):** Not dangerous goods.

**ADR – European agreement concerning the international carriage of dangerous goods by road:** Not regulated.

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### 15. REGULATORY INFORMATION

**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:** No SARA hazards.

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components:** No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right to Know components:** No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 components:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. OTHER INFORMATION

### HMIS Rating

**Health hazard:** 0

**Chronic Health Hazard:** 0

**Flammability** 0

**Physical Hazard:** 0

### NFPA Rating

**Health hazard:** 0

**Fire Hazard:** 0

**Reactivity Hazard** 0