

Collink-3D⁵⁰ Safety Data Sheet



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Collink.3D™ 50

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

Common uses: Biolnk platform material for biofabrication of tissue and organ models, including 3D cell cultures as well as scaffolds, tissues and organs for implantation. End users: 3D Bioprinting industry (life-science, pharmaceutical and biotechnology), academic and research institutions.

Uses advised against: Not for human use. For R&D use only.

1.3 Details of the supplier of the safety data sheet

CollPlant Biotechnologies Ltd.
4 Oppenheimer St., P.O.B 4132 Rehovot 7670104, Israel
Tel: +972 (0) 73- 232-5600
Fax: +972 (0) 73- 232-5602
Website: www.collplant.com

E-mail address of person responsible for this SDS: revival@collplant.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): +972 (0) 73- 232-5600

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 (OSHA HCS): Not classified

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP): Not classified

2.2 Label elements

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s): Not required

Signal word: Not required Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s): Not required

Signal word: Not required Not required

Hazard statement(s): Not required

Precautionary Statement(s): Not required

2.3 Other hazard

Not available

Section 3: Composition/information on ingredients

3.2 Mixtures:

Contains recombinant human type I collagen methacrylamide in 10 mM HCl.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

Section 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Foam, carbon dioxide, dry powder or water spray.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Under fire conditions may emit toxic and irritating fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

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. Ventilate area of spill.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

6.4 Reference to other sections

See Section 1 for emergency contact information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a cool and well-ventilated place. Store at temperatures between 2°C and 8°C. Keep away from strong oxidizing agents. Protect from light and heat. Do not freeze.

7.3 Specific end use(s): N/A

Section 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limit values: N/A

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear, transparent liquid

Odour: Odourless

Odour threshold: N/A

pH: 1.9-2.4

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: 1 g/cm³

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information

N/A

Section 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

The product is stable for at least 1 year under normal handling and storage conditions described in Section 7. Can polymerize upon exposure to external light source/incorporation of photo initiator.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

Exposure to air or moisture over prolonged periods. Heating. Freezing.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products: not available

In the event of fire: see section 5

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Not available

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Section 12: Ecological information

12.1 Toxicity

Not available

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: Transport information

14.1 Un number

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.2 UN proper shipping name

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.4 Packing group

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.5 Environmental hazard

Marine pollutant: N/A

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

Section 15: Regulatory information

This SDS complies with the following requirements of:

EU Regulation (EC) No.1907/2006 (REACH) including amendments

Regulation (EC) No.1272/2008 (CLP)

29 CFR 1910.1200 (OSHA HCS)

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

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.

TSCA inventory

The substances in this product are included on or exempted from the TSCA inventory.

15.2 Chemical safety assessment

Not available

Section 16: Other information

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

N/A- Not available

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

STEL- Short-Term Exposure Limit

CSA- Chemical safety assessment

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