

MATERIAL SAFETY DATASHEET

1. Product and company identification

Product name: TissueReady™ and TissueReady™-XL

Chemical Family: Polysaccharide and inorganic salts

General use: A kit containing polysaccharide-based gel solution, gelation buffer, and

dissolution buffer for tissue encapsulation/immobilization and hypothermic

preservation in sealed tubes

Manufacturer: Atelerix Ltd.

Biomedicine West

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2. Hazards identification

Potential health effects: No significant health effects expected

3. Composition / information on ingredients

Chemical Name	CAS No.	EC No.	EC Class	Concentration
Sodium Alginate	9005-38-3	None	Not classified as hazardous	< 10 %
Calcium Alginate	9005-35-0	None	Not classified as hazardous	100%
Sodium Citrate Dihydrate	6132-04	None	Not classified as hazardous	< 10 %
Phosphate Buffered Saline	None	None	Not classified as hazardous	n/a
Hank's Buffered Saline Solution	None	None	Not classified as hazardous	n/a

4. First aid measures

Eyes: Irrigate cautiously with clean water for several minutes. Remove contact lenses if

present and easy to do so. Continue rinsing. Get medical attention if irritation

occurs and persists.

Skin: Wash off with soap and water. Get medical attention if irritation occurs and

persists.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial

respiration. If any breathing difficulty or discomfort occurs and persists, obtain

medical attention.

Note to Medical Doctor: This product has low oral and inhalation toxicity. It is not a skin sensitizer and is

non-irritating to the skin.

5. Fire fighting measures

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire / explosion hazards: None.

Fire fighting procedures: None.

Flammable limits No data available.

6. Accidental release measures

If material is released or

spilled:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep

in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage: Store in a dry place at 2-8°C. Do not freeze

8. Exposure controls / personal protection

Control parameters: Contains no substances with occupational exposure limit values.

Appropriate controls: Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of each workday.

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 EN 166 (EU) or NIOSH (US).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove

removal technique to avoid touching the glove's outer surface and contact with this product. Dispose of contaminated gloves in accordance with applicable laws and good laboratory practices. Wash and dry hands. Selected gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

The product should be handled in accordance to good laboratory practices with the wearing of a suitable (e.g. Howie-style) laboratory coat.

Respiratory protection:

Avoid aerosol generation and handle in a Class II Biological Safety Cabinet.

Control of environmental exposure:

Do not let product enter drains.

9. Physical and chemical properties

Appearance: Form: liquid

Colour: colourless

Odourless Odourless

pH: 6.0-8.0 at 25°C

Melting point/freezing point: Approximately 0°C

Initial boiling point: Approximately 100°C

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Vapour pressure: No data available

Vapour density: No data available

Water solubility: n/a

10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Freezing.

Hazardous decomposition

products:

Hazardous decomposition products formed under fire conditions: hydrogen

chloride gas, calcium oxide, carbon oxides, sodium oxides.

11. Toxicological information

Acute toxicity: No data available.

Skin corrosion/irritation None.

Serious eye damage/irritation Gelation buffer included in the kit contains 1.1% (wt/vol) calcium chloride that

may cause serious eye irritation

Respiratory/skin sensitization: None.

Dermal LD50: No data available.

Oral LD50: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: 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.

Reproductive toxicity: No data available.

Specific target organ toxicity: No data available for either single or repeated exposure.

12. Ecological information

Environmental data: Sodium alginate is biodegradable and is not expected to have any significant

environmental effect. As a precaution, do not let components enter drains.

Ecotoxicological data: No data available.

13. Disposal consideration

Disposal method: Handle as a hazardous material. Handle as a biohazardous material when mixed

with cells. Always dispose of waste in accordance with the Directive on waste 2008/98/EC as well as all other local and national regulations. Do not mix with

other waste.

14. Transport information

IMDG: Not regulated

ADR/RID: Not regulated

IATA: Not dangerous goods unless the product contains cells. If the product contains

cells, it must be packaged in accordance of IATA P450 guidelines.

Environmental hazards (DOT): Marine pollutant: no

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15. Regulatory information

Safety, health and This safety datasheet complies with the requirements of Regulation (EC) No.

environmental regulations: 1907/2006

16. Other information

The above information is believed to be correct but does not claim to be fully comprehensive. It should therefore be used only as a guide and users must exercise their own risk assessment and independent judgment for the particular applications the product is used for. It does not denote any guarantee of the properties of the product. Atelerix Ltd. shall not be held liable for damages resulting from handling or from contact with this product, or any reliance on the information provided herein.