

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 11.08.2021

Version 2.0

Generic EU MSDS- No country specific data- No OEL data

### TUNICELL DILUTION KIT SAFETY DATA SHEET

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**NOTE:** *This Safety Data Sheet is for informational purposes only, and represents a preliminary assessment for a new pre-commercial substance that has not yet been tested in safety evaluations. The information provided is based on the best available published and unpublished data for similar substances, as listed below.*

##### 1.1 Product identifier

<b>Product name:</b>	TUNICELL dilution kit including Endotoxin-Free Ultra-Pure Water (Medical grade)
<b>Product Description:</b>	Sterilized, certified cell grade, pyrogen free (< 0.5 EU/mL), Bioburden free water (< 10 CFU/mL), Resistivity at 25 °C 18.2 MΩ·cm, TOC ≤ 5 ppb (µg/L; Osmolarity Calc≈:253 mOsm/L))
<b>Brand:</b>	TUNICELL
<b>Catalogue no</b>	Dilution kit
<b>REACH no.:</b>	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline
<b>CAS no:</b>	7732-18-5
<b>EC No:</b>	231-791-2

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

<b>Relevant identified uses:</b>	Biochemical and Biomedical research and analysis; 3D printing, 3D cell culture, tissue engineering and regenerative medicine. Particularly recommended for dilution of Ocean TuniCell products, preparation and dilution of hydrogels, extracellular matrix scaffolds, bioinks, biomedical devices, drug delivery. For research use only.
<b>Uses advised against:</b>	Not for human use, for research only

##### 1.3 Details of the supplier of the safety data sheet

<b>Company:</b>	Ocean TuniCell AS
<b>Address:</b>	Postbox 12, 5868 Blomsterdalen, Norway
<b>Phone number:</b>	+47 40 00 82 80
<b>Email:</b>	post@oceantunicell.com
<b>Homepage:</b>	www.oceantunicell.com

## 1.4 Emergency phone number

Norwegian Poison Center	+47 22 59 13 00
International	Call your national poison center, or a doctor/physician

---

## SECTION 2. Hazard's identification

---

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union legislation.

### 2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

---

### 3.1 Substance

Formula:	H <sub>2</sub> O
Molecular weight:	18.02 g/mol
CAS-No:	7732-18-5
Composition	100% H <sub>2</sub> O

---

## SECTION 4. First aid measures

---

### 4.1 Description of first aid measures

General advice No hazards which require special first aid measures.

### 4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

**SECTION 5. Firefighting measures**


---

<b>Extinguishing media</b> <i>Suitable extinguishing media</i>  <i>Unsuitable extinguishing media</i>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  For this substance/mixture no limitations of extinguishing agents are given.
<b>Special hazards arising from the substance or mixture</b>	Not combustible.
<b>Advice for firefighters</b> <i>Special protective equipment for firefighters</i>	None
<b>Further information</b>	None

---

**SECTION 6. Accidental release measures**


---

<b>Personal precautions, protective equipment and emergency procedures</b>	None
<b>Environmental precautions</b>	No special precautionary measures necessary.
<b>Methods and materials for containment and cleaning up</b>	Observe possible material restrictions (see sections 7 and 10). Pour into drain.
<b>Reference to other sections</b>	Indications about waste treatment see section 13.

---

**SECTION 7. Handling and storage**


---

<b>Precautions for safe handling</b>	For precautions see section 2.2.
<b>Conditions for safe storage, including any incompatibilities</b>	Storage conditions: Tightly closed Recommended storage temperature: see product label
<b>Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

**SECTION 8. Exposure controls/personal protection**


---

**8.1 Control parameters**

Ingredients with workplace control parameters

**8.2 Exposure controls**

<b>Engineering measures</b>	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.
<b>Personal protective equipment</b>	Individual protection measures Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.
<b>Eye /face protection</b>	Not required
<b>Skin protection</b>	Not required
<b>Respiratory protection</b>	Respiratory protection not required.
<b>Control of environmental exposure</b>	No special precautionary measures necessary

---

**SECTION 9. Physical and chemical properties**


---

**9.1 Information on basic physical and chemical properties**

a) Appearance Form	: Liquid
Colour:	: Colourless
b) Odour	: Odourless
c) Odour Threshold	: Not applicable
d) pH at 20 °C	: Neutral
e) Melting point/freezing point	: 0.0 °C
f) Initial boiling point and boiling range	: 100.0 °C at 1.013 hPa
g) Flash point	: Not applicable
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper/lower flammability or explosive limits	: Not applicable
k) Vapour pressure	: 23 hPa at 20 °C
l) Vapor density	: No data available
m) Relative density	: 1.000 g/cm <sup>3</sup> at 3.98 °C
n) Water solubility	: Completely miscible
o) Partition coefficient	: n-octanol/water log Pow: -0.467
p) Autoignition temperature	: Not applicable
q) Decomposition temperature	: Distillable in an undecomposed state at normal pressure
r) Viscosity dynamic	: 0.952 mPa.s at 20 °C
s) Explosive properties	: Not classified as explosive
t) Oxidizing properties	: None

**9.2 Other data**

Ignition temperature	: Not applicable
Minimum ignition energy	: Not applicable

---

**SECTION 10. Stability and reactivity**


---

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).

<b>Possibility of hazardous reactions Violent reactions possible with:</b>	The generally known reaction partners of water
<b>Conditions to avoid</b>	None
<b>Incompatible materials</b>	No information available
<b>Hazardous decomposition products</b>	None

---

## SECTION 11. Toxicological information

---

### 11.1 Information on toxicological effects

<b>Acute oral toxicity:</b>	No data available
<b>Acute inhalation toxicity:</b>	No data available
<b>Acute dermal toxicity:</b>	No data available
<b>Skin irritation:</b>	No data available
<b>Eye irritation:</b>	No data available
<b>Sensitisation:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Teratogenicity:</b>	No data available
<b>Specific target organ toxicity- single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available

### 11.2 Further information

No toxic effects are to be expected when the product is handled appropriately.

---

## SECTION 12. Ecological information

---

<b>Toxicity:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	Not applicable
<b>Mobility in soil:</b>	No data available
<b>Results of PBT and vPvB assessment PBT/vPvB assessment:</b>	Not available as chemical safety assessment not required/not conducted
<b>12.6 Other adverse effects Additional ecological information</b>	No ecological problems are to be expected when the product is handled and used with due care and attention

---

## SECTION 13. Disposal considerations

---

### Waste treatment methods

Taking into account local regulations the product may be disposed of as waste water after neutralization.

---

**SECTION 14. Transport information**


---

Not classified as dangerous in the meaning of transport regulations.

<b>UN number:</b> ADR/RID: - IMDG: - IATA: -	None
<b>UN proper shipping name:</b>	Not applicable
<b>Transport hazard class:</b>	Not applicable
<b>Packing group:</b>	Not applicable
<b>Environmental hazards:</b>	Not classified as hazardous to the environment
<b>Special precautions for user:</b>	No additional information available
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:</b>	Not applicable

---

**SECTION 15. Regulatory information**


---

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable
<b>Chemical safety assessment</b>	For this product a chemical safety assessment was not carried out.

---

**SECTION 16. Other information**


---

**Disclaimer**

*The information in the safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. No warranty is made regarding the accuracy of and/or sufficiency of such information. Nothing contained herein shall be construed as granting or extending any license under any patent. If the date on this document is more than three years old, call to make certain that this sheet is current.*

**SDS preparation date:** December 2020

**SDS last known revision date and changes made:** Version 2.0, August 2021

**SDS prepared by:** Ocean TuniCell AS ([www.oceantunicell.com](http://www.oceantunicell.com))

**SDS revised by:** Ocean TuniCell AS ([www.oceantunicell.com](http://www.oceantunicell.com))

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).