

## Safety Data Sheet

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

#### Identification of the substance or mixture

**Product code** C5021  
**Product name** Digestion Solution

#### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
Fax.: +370 5 2602142

Life Technologies  
5250 Mainway Drive  
Burlington, ONT  
CANADA L7L 6A4  
800/263-6236

**24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC** Within the USA + Canada: 1-800-424-9300 and +1 703-527-3887  
Outside the USA + Canada: +1 703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

### SECTION 2: Hazards identification

#### GHS - Classification

**Signal Word**  
WARNING

**Hazard pictograms**



#### Health hazards

Skin corrosion/irritation

Category 3

**Revision date** 01-Apr-2019  
**Product code** C5021

**Page** 1 / 9  
**Product name** Digestion Solution

Serious eye damage/eye irritation	Category 2
-----------------------------------	------------

**Physical hazards**

Not classified

**Environmental hazards**

Not classified

**Hazard Statements**

H316 - Causes mild skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements**

**Prevention**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

**Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P332 + P313 - If skin irritation occurs: Get medical advice/attention

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Other hazards**

Contains a known or suspected endocrine disruptor

**HMIS**

Health	2
Flammability	0
Reactivity	0

**SECTION 3: Composition/information on ingredients**

Component	CAS No.	Common name	EINECS-No	Weight-%
Triton X-100 9002-93-1 ( 1-2.4 )	9002-93-1	-	-	1-2.4
N-LAUROYLSARCOSINE SODIUM SALT 137-16-6 ( 0.1-1 )	137-16-6	-	-	0.1-1
sodium dodecyl sulfate 151-21-3 ( 1-5 )	151-21-3	-	205-788-1	1-5

We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

### Description of first aid measures

<b>Skin contact</b>	Rinse with plenty of water. Immediate medical attention is not required.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
<b>Inhalation</b>	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically.

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

H316 - Causes mild skin irritation H319 - Causes serious eye irritation

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

None.

## SECTION 5: Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No information available.

### Special hazards arising from the substance or mixture

Not known.

### Advice for fire-fighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment  
Use personal protection equipment  
See Section 8 for more detail

### Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

### Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Triton X-100	None	None	None	None
N-LAUROYLSARCOSINE SODIUM SALT	None	None	None	None
sodium dodecyl sulfate	None	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Triton X-100	None	None	None
N-LAUROYLSARCOSINE SODIUM SALT	None	None	None
sodium dodecyl sulfate	None	None	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### Personal Protective Equipment

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	liquid	
<b>Odor</b>	No information available	
<b>Odor Threshold</b>	No information available	
<b>Melting point / melting range</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Boiling point / boiling range</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Flash point</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Autoignition Temperature</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Decomposition temperature</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Evaporation rate</b>	No data	
<b>Flammability (solid, gas)</b>	No data	
<b>Upper explosion limit</b>	Mixture has not been tested	
<b>Lower explosion limit</b>	Mixture has not been tested	
<b>Vapor Pressure</b>	Mixture has not been tested	
<b>Relative density</b>	Mixture has not been tested	
<b>Specific gravity</b>	No data	
<b>Solubility</b>	No data	
<b>Partition coefficient: n-octanol/water</b>	No data	
<b>Viscosity</b>	No data	
<b>Explosive properties</b>	Mixture has not been tested	
<b>Oxidizing properties</b>	No data	

### Other information

No data.

## SECTION 10: Stability and reactivity

<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Triton X-100	= 1800 mg/kg (Rat) = 4190 mg/kg (Rat) = 1700 mg/kg (Rat)	No data available	No data available
N-LAUROYLSARCOSINE SODIUM SALT	No data available	No data available	0.5 mg/L
sodium dodecyl sulfate	= 1288 mg/kg (Rat) = 1783 mg/kg (Rat)	No data available	>3900mg/m <sup>3</sup> (Rat)

### Principal Routes of Exposure

<b>Skin corrosion/irritation</b>	Conclusive but not sufficient for classification
<b>Serious eye damage/irritation</b>	Conclusive but not sufficient for classification
<b>Respiratory or skin sensitization</b>	Conclusive but not sufficient for classification
<b>Specific target organ toxicity (STOT) – single exposure</b>	Conclusive but not sufficient for classification
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	Conclusive but not sufficient for classification
<b>Carcinogenicity</b>	Conclusive but not sufficient for classification
<b>Germ cell mutagenicity</b>	Conclusive but not sufficient for classification
<b>Reproductive toxicity</b>	Conclusive but not sufficient for classification
<b>Aspiration hazard</b>	Conclusive but not sufficient for classification

## SECTION 12: Ecological information

### Toxicity

Hazardous to the Aquatic Environment.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
<b>Triton X-100</b>	EC50: 0.21 mg/L (96hr)	No data available	No data available	No data available	No data available
<b>N-LAUROYLSARCOSINE SODIUM SALT</b>	No data available	No data available	No data available	No data available	No data available
<b>sodium dodecyl sulfate</b>	Desmodesmus subspicatus EC50=42 mg/L (96 h) Desmodesmus subspicatus EC50=53 mg/L (72 h) Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC50=117 mg/L (96 h) Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h)	Daphnia magna EC50=21.2 mg/L (24 h) Daphnia magna EC50=1.8 mg/L (48 h)	No data available	No data available	logPow1.6

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** Contains a known or suspected endocrine disruptor.

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not empty into drains. Do not dispose of waste into sewer.

## SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

<b>UN number</b>	Not Applicable
<b>UN proper shipping name</b>	Not Applicable
<b>Transport hazard class(es)</b>	Not Applicable
<b>Packing group</b>	Not Applicable

### Environmental hazards

Revision date 01-Apr-2019  
Product code C5021

Page 7 / 9  
Product name Digestion Solution

Not Applicable

**Special precautions for user**

Not Applicable

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

Not Applicable.

**SECTION 15: Regulatory information**

Component	US TSCA
Triton X-100 9002-93-1 ( 1-2.4 )	Listed
N-LAUROYLSARCOSINE SODIUM SALT 137-16-6 ( 0.1-1 )	Listed
sodium dodecyl sulfate 151-21-3 ( 1-5 )	Listed

**US Federal Regulations**

**SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**National Regulations - Brazil**

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Triton X-100	9002-93-1	Not Listed	Not Listed
N-LAUROYLSARCOSINE SODIUM SALT	137-16-6	Not Listed	Not Listed
sodium dodecyl sulfate	151-21-3	Not Listed	Not Listed

Revision date 01-Apr-2019  
Product code C5021

Page 8 / 9  
Product name Digestion Solution



## SECTION 16: Other information

**Reason for revision** SDS sections updated.  
**Revision number** 1  
**Revision date** 01-Apr-2019

For research use only. Not for use in diagnostic procedures.

### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet**