

# **Safety Data Sheet**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

#### **Product identifier**

Product code 26619

Product name PageRuler™ Plus Prestained Protein Ladder

Unique Formula Identifier

(UFI)

Not Applicable

Chemical Name Not Applicable

REACH registration number No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

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

**Relevant identified uses** For research use only. Not for use in diagnostic procedures

**Use Description Code** SU22 - Professional uses: Public domain (administration, education,

entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 -

Laboratory chemicals, SU24 - Scientific research and development

**Uses advised against** Not for consumer use.

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

#### Manufacturer / Supplier

Thermo Fisher Scientific Baltics UAB Life Technologies Limited

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LT-02241 Vilnius Inchinnan Business Park

Lithuania Paisley

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LIFE TECHNOLOGIES EUROPE BV KWARTSWEG 2 2665 NN BLEISWIJK NETHERLANDS

31-(0)180 392 400 Email: MSDS@lifetech.com

Emergency telephone number

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

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[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish) +(44)-870-8200418 (Greeting Language: English)

#### SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Physical hazards** 

Not classified

**Health hazards** 

Not classified

**Environmental hazards** 

Not classified

Additional information

Not Applicable

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms

None

**Signal Word** 

Not Applicable

**Hazard Statements** 

Not Applicable

**EU Specific Hazard Statements** 

Not Applicable

**Precautionary Statements** 

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

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# Not Applicable.

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

#### **Mixtures**

We recommend handling all chemicals with caution.

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium lauryl sulfate	151-21-3	205-788-1	1-5	-	Flam. Solid 2 H228 Acute Tox. 4 H302 Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Damage 1 H318 STOT Single Exp. 3 H335 Aquatic Chronic 3 H412

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
Sodium lauryl sulfate	-	-	-

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

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#### SECTION 5: Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

No information available.

Special hazards arising from the substance or mixture Not known

Hazardous Combustion Products No data available.

Advice for firefighters 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 information

#### **Environmental precautions**

No special environmental precautions required.

#### 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.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

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

#### **Storage Conditions**

Store at -20 °C

#### Specific end use(s)

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

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# SECTION 8: Exposure controls/personal protection

# **Control parameters**

# **Exposure Limits**

	Chemical Name EU OEL (TWA)		EU OEL (STEL)	EU Skin Notation	
Γ	Sodium lauryl sulfate	None	None	None	
-	151-21-3				

Chemical Name	Chemical Name Austria		Czech Republic	
Sodium lauryl sulfate	None	None	None	
151-21-3				

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Sodium lauryl sulfate	None	None	None
151-21-3			

Chemical Name		Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)	
	Sodium lauryl sulfate	None	None	None	
	151-21-3				

Chemical Name Lithu		Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway	
	Sodium lauryl sulfate	None	None	None	
	151-21-3				

Chemical Name Poland		Portugal	Spain OEL (TWA)	
Sodium lauryl sulfate	None	None	None	
151-21-3				

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Sodium lauryl sulfate 151-21-3	None	None	None

# **Derived No Effect Level (DNEL)** See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Sodium lauryl sulfate 151-21-3 ( 1-5 )	None	None	None	DNEL = 4060mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Sodium lauryl sulfate 151-21-3 ( 1-5 )	None	None	None	DNEL = 285mg/m <sup>3</sup>

# **Predicted No Effect Concentration (PNEC)**

See table for values

Chemical Name	Fresh water sediment	Fresh water	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Sodium lauryl sulfate	PNEC = 6.97mg/kg	None	PNEC = 0.055mg/L	PNEC = 1.35mg/L	PNEC = 1.29mg/kg
151-21-3	sediment dw			_	soil dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Sodium lauryl sulfate	PNEC = 0.0176mg/L	PNEC = 0.697mg/kg	None	None	None
151-21-3 ( 1-5 )		sediment dw			

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

#### **Exposure controls**

#### Personal protection 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**

No special environmental precautions required.

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#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state liquid
Colour No data
Odour No data
Molecular Weight No data
Melting point / melting range °C No data

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No data

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Flash point

No data

No data

No data

C No data

Flash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo dataDecomposition temperature°CNo data°FNo data

pHNo dataEvaporation rateNo dataViscosityNo dataSolubilityNo dataPartition coefficient:No data

n-octanol/water

Vapour PressureNo dataSpecific gravityNo dataRelative densityNo dataVapour densityNo dataExplosive propertiesNo dataOxidising propertiesNo dataParticle characteristicsNo data

#### Other information

#### Information with regards to physical hazard classes

No information available

#### Other safety characteristics

No information available

SECTION	10: Stability	and reactivity

**Reactivity** None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

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#### SECTION 11: Toxicological information

#### Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** Product does not present an acute toxicity hazard based on known or supplied

information

#### **Acute Toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium lauryl sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg(Rabbit)	>3900mg/m³(Rat)

#### **Principal Routes of Exposure**

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitisation

Data are conclusive but insufficient for classification

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

**Germ cell mutagenicity** Data are conclusive but insufficient for classification

**Reproductive Toxicity** Data are conclusive but insufficient for classification

Aspiration Hazard Data are conclusive but insufficient for classification

Information on other hazards

Endocrine disrupting

properties

No information available.

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#### SECTION 12: Ecological information

#### **Toxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Sodium lauryl sulfate	Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h) Pseudokirchneriella subcapitata EC50=117 mg/L (96 h) Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Desmodesmus subspicatus EC50=53 mg/L (72 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.

**Mobility in soil** No information available.

Results of PBT and vPvB

assessment

No information available.

#### **Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

Other adverse effects No information available.

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone depletion potential (ODP) This product does not contain any known or suspected substance

#### 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 according to 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.

#### **SECTION 14: Transport information**

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

Not regulated in the meaning of transport regulations

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UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Not Applicable Not Applicable Not Applicable Not Applicable

**Environmental hazards** 

Not Applicable

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

#### SECTION 15: Regulatory information

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

**Substances of Very High Concern** 

None

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None

Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

None

Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

EU - Substances Depleting the Ozone layer (1005/2009)

None

German Water hazard classes (Wassergefährdungsklassen)

Chemical Name	Weight-%	Water hazard class (WGK)
Sodium lauryl sulfate	1-5	hazard class 2 - obviously hazardous to water

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#### **Other International Inventories**

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Sodium lauryl sulfate	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Sodium lauryl sulfate	Listed	Listed	Listed	=

Chemical safety assessment
No Chemical safety assessment has been carried out.

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#### SECTION 16: Other information

**Reason for revision** Update according to Commission Regulation EU No. 2020/878

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Revision date 07-Feb-2024

#### 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

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Not classified

#### Abbreviations and acronyms

TWA - Time-Weighted Average

**OELs** - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

**DOT** - Department of Transportation

IMDG - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

"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"

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