SAFETY DATA SHEET

Version 1 **Issuing Date:** 29-Jan-2020

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product code 9336

Product Name Trypsin (1:250) 2.5% 10X Solution

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

Product Use Laboratory chemicals.

Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Supplier
FUJIFILM Europe GmbH
Heesenstraße 31
40549 Düsseldorf, Germany

Manufactured by
FUJIFILM Irvine Scientific, Inc.
2511 Daimler Street
Santa Ana, CA 92705
U.S.A.

For further information, please contact:

Company Phone Number (01) (800) 437-5706

E-mail Address tmrequest@irvinesci.com

1.4. Emergency telephone number

United Kingdom	CHEMTREC UK: +(44)-870-8200418

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Respiratory sensitization	Category 1

Hazard Statements
May cause allergy or asthma symptoms or breathing difficulties if inhaled

2.2. Label elements



Signal Word
Danger

Hazard Statements
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P284 - In case of inadequate ventilation wear respiratory protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

2.3. Other hazards
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Trypsin	232-650-8	9002-07-7	1-5%	Skin Irrit. 2 (H315) STOT SE 3 (H335) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334)	no data available

Full text of H- and EUH-phrases: see section 16

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

Inhalation IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use CO2, dry chemical, or foam.

Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture
None known.

Hazardous Combustion Products
Carbon oxides. Sodium oxides. Nitrogen oxides (NOx). Hydrogen chloride.

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Use personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4. Reference to other sections

See section 7 for more information.
See section 8 for more information.
See Section 12 for additional Ecological Information.
See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate

ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures below -10 °C / 14 °F.

7.3. Specific end use(s)

Laboratory chemicals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit value This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand Protection	Wear protective gloves.
Skin and body protection	Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Environmental Exposure Controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear	**Odor**	No information available
Odor Threshold	No information available	**Physical State @20°C**	Liquid
pH	4.2 - 5.0		
Boiling point / boiling range	No information available	**Flash point**	No information available
Autoignition temperature	No information available	**Decomposition temperature**	No information available
Melting point / melting range	No information available	**Freezing Point**	No information available
Flammability (solid, gas)	No information available	**Flammability Limit in Air**	No information available
Oxidizing Properties	No information available	**Explosive Properties**	No information available
Specific Gravity	No information available	**Solubility**	No information available
Evaporation rate	No information available	**Vapor Pressure**	No information available
Vapor density	No information available	**Density**	No information available
Dynamic viscosity		**Partition coefficient: n-octanol/water**	No information available

Other information

Molecular Weight	No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Protect from light. Temperatures above -10 °C / 14 °F.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Acute toxicity

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause allergic respiratory reaction.

Eyes May cause slight irritation.

Skin Causes mild skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Trypsin	> 5 g/kg (Rat)		

Chronic toxicity

Carcinogenicity None known.

Corrosivity None known.

Irritation Mild skin irritant May cause slight eye irritation

Sensitization None known.

Reproductive Toxicity None known.

Mutagenic Effects None known.

Target Organ Effects Skin. Eyes. Respiratory system. Lungs.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

The environmental impact of this product has not been fully investigated

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IMDG Not regulated

RID Not regulated

ADR/RID Not regulated

ICAO Not regulated

IATA Not regulated

Special precautions for users No information available.

15. REGULATORY INFORMATION

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work.

International Inventories

TSCA	Yes
EINECS/ELINCS	Yes
DSL/NDSL	Yes
AICS	Yes
NZIoC	Yes

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation

Prepared By	FUJIFILM Environment, Health and Safety, phone: (01) (800) 473-3854
Revision Date	29-Jan-2020
Revision Note	CLP Annex VI harmonized classification(s) and/or available REACH registration information are the primary data sources referenced in determining the classification of this product.

This safety data sheet complies with the requirements of: Regulation (EC) No 1272/2008.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.