

SAFETY DATA SHEET

Complex Proteomics Standard, Part Number 400510

Section 1. Identification

Product identifier : Complex Proteomics Standard, Part Number 400510
Part no. (chemical kit) : 400510
Part no. : Proteomics Grade Trypsin 204310-51
 Pfu Protein Extract Proteomics Standard 400510-51

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

Identified uses : Analytical reagent.
 Proteomics Grade Trypsin 2 x 0.1 mg
 Pfu Protein Extract Proteomics Standard 0.5 mg

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Proteomics Grade Trypsin

H315 SKIN CORROSION/IRRITATION - Category 2
 H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
 H334 RESPIRATORY SENSITISATION - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

GHS label elements

Hazard pictograms : Proteomics Grade Trypsin



Signal word : Proteomics Grade Trypsin DANGER
 Pfu Protein Extract No signal word.
 Proteomics Standard

Hazard statements : Proteomics Grade Trypsin 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.
 Pfu Protein Extract No known significant effects or critical hazards.
 Proteomics Standard

Precautionary statements

Prevention : Proteomics Grade Trypsin P280 - Wear protective gloves. Wear eye or face protection.
 P261 - Avoid breathing dust or mist.
 Pfu Protein Extract Not applicable.
 Proteomics Standard

Section 2. Hazard(s) identification

Response	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	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. Not applicable.
Storage	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. Not applicable.
Disposal	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
Supplemental label elements		
Additional warning phrases	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.
Other hazards which do not result in classification	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	May form combustible dust concentrations in air. None known.

Section 3. Composition and ingredient information

Substance/mixture	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Substance Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Proteomics Grade Trypsin Trypsin	100	9002-07-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.


Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
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Section 4. First aid measures

Inhalation	: Proteomics Grade Trypsin	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
	Pfu Protein Extract Proteomics Standard	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Proteomics Grade Trypsin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Pfu Protein Extract Proteomics Standard	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:  Proteomics Grade Trypsin	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Pfu Protein Extract Proteomics Standard	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<u>Most important symptoms/effects, acute and delayed</u>		
<u>Potential acute health effects</u>		
Eye contact	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Causes serious eye irritation. No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. No known significant effects or critical hazards.
Skin contact	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Causes skin irritation. No known significant effects or critical hazards.
Ingestion	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Adverse symptoms may include the following: pain or irritation watering redness No specific data.
Inhalation	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma No specific data.
Skin contact	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Adverse symptoms may include the following: irritation redness No specific data.
Ingestion	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No specific data. No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No specific treatment. No specific treatment.
Protection of first-aiders	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Use dry chemical powder. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. None known.
Specific hazards arising from the chemical	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	May form explosible dust-air mixture if dispersed. No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides
Special protective actions for fire-fighters	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk
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Section 6. Accidental release measures

For emergency responders : Proteomics Grade Trypsin

Pfu Protein Extract
Proteomics Standard

through spilt material. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Proteomics Grade Trypsin

Pfu Protein Extract
Proteomics Standard

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up : Proteomics Grade Trypsin

Pfu Protein Extract
Proteomics Standard

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Proteomics Grade Trypsin

Pfu Protein Extract
Proteomics Standard

Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8).

Section 7. Handling and storage

Advice on general occupational hygiene

: Proteomics Grade Trypsin

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Pfu Protein Extract
Proteomics Standard

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Proteomics Grade Trypsin

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Pfu Protein Extract
Proteomics Standard

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Proteomics Grade Trypsin Trypsin	DFG MAC-values list (Germany, 7/2022). Inhalation sensitiser.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls and personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Solid. [Crystals./ Powder.] Solid. [Enzyme.]
Colour	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Clear. Yellow. Not available.
Odour	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Odourless. Not available.
Odour threshold	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.
pH	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.

Section 9. Physical and chemical properties and safety characteristics

Melting point/freezing point	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	115°C (239°F) Not available.						
Boiling point, initial boiling point, and boiling range	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						
Flash point	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.						
Evaporation rate	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						
Flammability	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						
Lower and upper explosion limit/flammability limit	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.						
Vapour pressure	: Not available.							
Relative vapour density	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.						
Relative density	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						
Solubility(ies)	: <table border="1"> <thead> <tr> <th>Media</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Proteomics Grade Trypsin water</td> <td>Soluble</td> </tr> <tr> <td>Pfu Protein Extract Proteomics Standard water</td> <td>Soluble</td> </tr> </tbody> </table>	Media	Result	Proteomics Grade Trypsin water	Soluble	Pfu Protein Extract Proteomics Standard water	Soluble	
Media	Result							
Proteomics Grade Trypsin water	Soluble							
Pfu Protein Extract Proteomics Standard water	Soluble							
Partition coefficient: n-octanol/water	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not applicable.						
Auto-ignition temperature	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.						
Decomposition temperature	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						
Viscosity	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not applicable. Not applicable.						
Particle characteristics								
Median particle size	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Not available. Not available.						

Section 10. Stability and reactivity

Reactivity	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
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Section 10. Stability and reactivity

Chemical stability	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	The product is stable. The product is stable.
Possibility of hazardous reactions	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. No specific data.
Incompatible materials	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Reactive or incompatible with the following materials: oxidising materials May react or be incompatible with oxidising materials.
Hazardous decomposition products	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Proteomics Grade Trypsin Trypsin	LD50 Oral	Rat	>5 g/kg	-

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin : May cause skin sensitisation.

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Proteomics Grade Trypsin Trypsin	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Not available.

Potential acute health effects

Eye contact : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Causes serious eye irritation.
No known significant effects or critical hazards.

Inhalation : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
No known significant effects or critical hazards.

Skin contact : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Causes skin irritation.
No known significant effects or critical hazards.

Ingestion : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

No known significant effects or critical hazards.
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Adverse symptoms may include the following:
pain or irritation
watering
redness
No specific data.

Inhalation : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Adverse symptoms may include the following:
respiratory tract irritation
coughing
wheezing and breathing difficulties
asthma
No specific data.

Skin contact : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

Adverse symptoms may include the following:
irritation
redness
No specific data.

Ingestion : Proteomics Grade Trypsin
Pfu Protein Extract
Proteomics Standard

No specific data.
No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
Carcinogenicity	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Proteomics Grade Trypsin Pfu Protein Extract Proteomics Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Proteomics Grade Trypsin Trypsin	OECD 301B Ready Biodegradability - CO2 Evolution Test	100 % - Readily - 29 days	-	Activated sludge

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : Not determined.

United States : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 31/10/2023

Date of previous issue : 03/09/2020

Version : 6

Key to abbreviations

ADG = Australian Dangerous Goods
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Proteomics Grade Trypsin SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A RESPIRATORY SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3	Regulatory data Regulatory data Regulatory data Regulatory data

Indicates information that has changed from previously issued version.

Notice to reader

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