

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Enzymatic Protein Cleaner

Revision 2

Revision date 2012-10-30

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

1.1. Product identifier

Product name	Enzymatic Protein Cleaner
CAS No.	9014-01-1
EC No.	232-752-2
Index No.	647-012-00-8
Product code	01-12-0001

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

Description	For use with Trinity Biotech instrument systems to remove protein buildup and extend column life. For in Vitro Diagnostic Use only.
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1.3. Details of the supplier of the safety data sheet

Company	Trinity Biotech
Address	IDA Business Park Bray Co. Wicklow Ireland
Web	www.trinitybiotech.com
Telephone	+353 1 276 9800
Fax	+353 1 276 9883
Email	info@trinitybiotech.com

Local Supplier

Company	Trinity Biotech USA
Address	4231 E. 75th Terrace Kansas City MO 64132 USA
Telephone	800-325-3424
Fax	716-487-1419

1.4. Emergency telephone number

Contact national poison unit:	Ireland 01-837-9964 USA 1-800-603-8076 Belgium (=31) 30 2748888 France (+331) 40.37.04.04
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC	Xn; R42 Xi; R37/38-41 Symbols: Xn: Harmful.
Main hazards	Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitisation

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2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	by inhalation.
	Skin Irrit. 2: H315; Eye Dam. 1: H318; Resp. Sens. 1: H334; STOT SE 3: H335;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P285 - In case of inadequate ventilation wear respiratory protection.
Precautionary Statement: Response	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Non-pathogenic Proteinase Enzyme (Subtilisins (Bacillus subtilis Carlsberg))	647-012-00-8	9014-01-1	232-752-2		90 - 100%	Xn; R42 Xi; R37/38-41

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Non-pathogenic Proteinase Enzyme (Subtilisins (Bacillus subtilis Carlsberg))	647-012-00-8	9014-01-1	232-752-2		90 - 100%	Skin Irrit. 2: H315; Eye Dam. 1: H318; Resp. Sens. 1: H334; STOT SE 3: H335;

SECTION 4: First aid measures

4.1. Description of first aid measures

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4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, seek medical advice immediately and show this container or label.
General information	
	Wash with soap and water. Seek medical attention if irritation or symptoms persist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Wear suitable protective equipment.
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5.3. Advice for firefighters

	None.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Avoid formation of dust. Ensure adequate ventilation of the working area. Wear suitable protective clothing. Wear suitable protective equipment. Do not breathe dust.
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6.3. Methods and material for containment and cleaning up

	Wash with soap and water.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Keep container tightly closed.
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7.2. Conditions for safe storage, including any incompatibilities

	Store in original container at cool temperatures. May be frozen or refrigerated. Protect from prolonged storage at elevated temperatures.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Enzymatic Protein Cleaner (Subtilisins (Bacillus subtilis Carlsberg))	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.00004
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

8.2. Exposure controls

Eye / face protection	Wear eye/face protection.
Skin protection - Handprotection	Wear suitable gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Wear suitable protective clothing. Wear suitable respiratory equipment when necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Tablet
Colour	White
Melting point	Not applicable.
Freezing Point	Not applicable.
Boiling point	Not applicable.
Solubility	Soluble in water

9.2. Other information

VOC (Volatile organic compounds)	0 g/l
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SECTION 10: Stability and reactivity

10.4. Conditions to avoid

	None.
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10.5. Incompatible materials

	None.
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10.6. Hazardous decomposition products

	None.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	None.
Skin corrosion/irritation	None.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.

SECTION 12: Ecological information

12.2. Persistence and degradability

	This product is not known to present any environmental hazards related to persistence in the environment, resistance to biodegradability, or hazardous degradation intermediates. The plastic container consists of polypropylene and may be recycled.
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12.3. Bioaccumulative potential

	None.
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12.4. Mobility in soil

	None.
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12.6. Other adverse effects

	None.
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Further information

	This product does not present an environmental hazard in the terrestrial, atmospheric, or food-chain via accumulation.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Disposal should be made in accordance with local and national regulations.
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SECTION 14: Transport information

14.6. Special precautions for user

	Transportation of this product is not regulated. Handle and open container with care. Keep in a cool place.
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SECTION 15: Regulatory information

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

	For in Vitro Diagnostic Use only.
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SECTION 16: Other information

Other information

	The information contained in this MSDS does not purport to be all-inclusive and is provided for general guidance only. The manufacturer is not liable for any damage resulting from mishandling or unprotected contact with the above product.
Text of risk phrases in Section 3	R37/38 - Irritating to respiratory system and skin. R41 - Risk of serious damage to eyes. R42 - May cause sensitisation by inhalation.
Text of Hazard Statements in Section 3	Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation.
Maximum content of VOC	0 g/l.