

MATERIAL SAFETY DATA SHEET

Doc. ID: MSDS2-102E

Revision: C



1. Identification of the substance/preparation and company

Product Name: Intact Proinsulin ELISA Kit:
(1) Assay Standards and Controls
(2) Biotin Conjugated Antibody
(3) HRP Labelled Streptavidin
(4) Sample Buffer
(5) Coated Microtitre Plate
(6) Wash Buffer Concentrate
(7) Substrate Solution
(8) Stop Reagent

Product Use: In vitro diagnostics

Company: Invitron Limited
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2. Composition/information on ingredients

Substance/preparation: Preparation

Water based buffers containing the following hazardous ingredients:

Name	CAS No.	EC No.	Conc. (%)	Classification
Thimerosal (6)	54-64-8	200-210-4	<0.05	R26/27/28
Tetramethylbenzidine (TMB) solution (7)	54827-17-7	259-364-6	<1	R20/21/22, R36/37/38
Sulphuric acid (8)	7665-93-9	231-639-5	1-3	R34, R36/37/38, C

3. Hazards identification

There are no ingredients present at concentrations that are classified as hazardous to health or the environment (EU 67/548/EEC and 1999/45/EC).

Caution: **(8)** May cause irritation to eyes and skin or by inhalation.

4. First aid measures

- Eye contact:** (1-8) Flush with water. **Obtain medical attention.**
- Skin contact:** (1-8) Wash skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, **obtain medical attention.**
- Inhalation:** (1-8) Remove from exposure, **obtain medical attention.**
- Ingestion:** (1-8) **Obtain medical attention.**
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5. Fire-fighting measures

- Flammability:** (1-8) **Non-flammable**
- Extinguishing media:** (1-8) No restriction
- Flash point (deg C):** (1-8) Not applicable
- Explosive limits (%):** (1-8) Not applicable
- Fire fighting procedures:** (1-8) Standard procedures. Protective clothing and self-contained breathing apparatus for confined spaces.
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6. Accidental release measures

- Precautions:** (1-8) Wear appropriate protective clothing. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on an inert absorbent, transfer to container and arrange removal by disposal company.
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7. Handling and storage

- Handling:** (1- 8) Wear appropriate personal protective equipment. Avoid contact with skin and eyes.
- Storage:** (1- 8) Store in original container in a dry, cool, well ventilated area. Containers that have been opened must be carefully resealed and stored upright to prevent leakage.
- Special requirements:** (1- 8) None
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8. Exposure controls/personal protection

Workplace exposure limits (EH40/2005):

Name	Short term exposure limit 15 min reference period	Long term exposure limit 8 hour TWA reference period
(8) Sulphuric Acid (mist)	-	0.05 mg/m ³

Occupational exposure controls:

Respiratory:	(1-8) Not applicable
Ventilation:	(1-8) Not applicable
Hand protection:	(1-8) Chemical resistant gloves (butyl rubber, PE or PVC)
Eye protection:	(1-8) Chemical safety glasses
Other measures:	(1-8) If handling large quantities - plastic apron, sleeves, boots

9. Physical and chemical properties

Appearance:	(1, 5) White, Solid (2,3,4,6,7,8) Colourless liquid
Odour:	(1-8) None
M Pt (deg C):	(1-8) Not available
B Pt (deg C):	(1-8) Not available
Specific Gravity:	(1-8) Not available
Flash point (deg C):	(1-8) Not available
Explosive limits (%):	(1-8) Not available
Vapour pressure:	(1-8) Not available
Vapour density:	(1, 2) Not available
Solubility in water:	(1-8) Miscible in all proportions

10. Stability and reactivity

Chemical Stability:	(1-8) The product is stable
Hazardous reactions:	(1-8) None known when used appropriately
Hazardous decomposition products:	(1-8) None known

11. Toxicological information

Eyes:	(8) May causes eye irritation.
Skin:	(8) May cause skin irritation.
Inhalation:	(8) May cause irritation to respiratory system.
Ingestion:	(8) May cause irritation to mouth and throat.
Other:	(1-8) Quantitative data on the toxicity of this product are not available. Handle in accordance with good industrial hygiene and safely practice.

12. Ecological information

Not available

13. Disposal considerations

Disposal should comply with the requirements of environmental protection and waste disposal legislation and regional local authority requirements.

14. Transport information

International transport regulations:

Not regulated, non-hazardous for transport

UN Number	Shipping Name	Classes	Packing Group
N/A	N/A	N/A	N/A

15. Regulatory information

Classification has been determined according to EU 67/548/EEC and 1999/45/EC.

Product Use	Industrial applications
Hazard symbol:	N/A
Warnings:	N/A
Precautions:	N/A

16. Other information

Risk Phrases referred to in section 2	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed R34: Causes burns R36/37/38: Irritating to eyes, respiratory system and skin
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The information herein is believed to be correct as of the date hereof, but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.

This product, or the components thereof, is not for internal or external use in humans or animals. Use only as directed on the enclosed package insert. Invitron Ltd will assume no liability for the improper use of this product. Good laboratory practice should be observed at all times. Skin, mucous membranes, or eyes that come into contact with this product should be irrigated with plenty of water. If irritation results or persists, obtain medical attention.
