# **GE** Healthcare

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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

1.1 Product identifier

Peroxidase conjugate, lyophilized; part of 'Beta

Amyloid 1-42 Biotrak™ ELISA System'

Catalogue Number RPN5901

Component Number RPN5901CJ

**Product description** Not available.

Product type Solid.

Other means of identification Not available.

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

Analytical chemistry. Laboratory chemicals Research and Development

1.3 Details of the supplier of the safety data sheet

SupplierGE Healthcare UK LtdHours of operationAmersham Place08.30 - 17.00

Little Chalfont Buckinghamshire HP7 9NA

England

+44 0870 606 1921

Person who prepared the MSDS: msdslifesciences@ge.com

1.4 Emergency telephone number

0870 606 1921

United Kingdom (UK) GE Healthcare UK Ltd

Amersham Place Little Chalfont Buckinghamshire HP7 9NA

National advisory body/Poison Centre

**United Kingdom (UK)**These services are only available to health professionals.

The UK National Poisons Emergency number is 0870 600 6266 (Outside the UK: +44 870 600 6266)

Guy's & St Thomas' Poisons Unit Medical Toxicology Unit Guy's & St Thomas' Hospital Trust

Avaplay Road

Avonley Road London SE14 5ER

Telephone: +44 (0)20 7771 5315 (Director), +44 (0)20 7771 5310 (Poisons information service)

Emergency telephone: 0870 243 2241

Fax: +44 (0)20 7771 5309 E-mail: npis@gstt.nhs.uk

Web site: http://www.medtox.org.uk

Mixture

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



Article Number 25900031-8

Validation date 27 April 2011

Version 8

Page: 1/9

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition Mixture

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

Not classified.

Ingredients of unknown toxicity Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2%

**Ingredients of unknown ecotoxicity** Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment:

#### Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

<u>Precautionary statements</u>

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.

Hazardous ingredients

**Supplemental label elements** Safety data sheet available for professional user on request.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Other hazards which do not result Not available.

in classification

# SECTION 3: Composition/information on ingredients

Substance/mixture

Mixture

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
sucrose	EC: 200-334-9 CAS: 57-50-1	10-15	Not classified.	Not classified.	[2]
edetic acid	EC: 200-449-4 CAS: 60-00-4 Index: 607-429-00-8	1-5	Xi; R36	Eye Irrit. 2, H319	[1]
iron (II) sulfate (1:1) heptahydrate	EC: 231-753-5 CAS: 7782-63-0 Index: 026-003-01-4	1-3	Xn; R22 Xi; R36/38	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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



Article Number

Validation date 27 April 2011

25900031-8

Page: 2/9

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

### SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation

occurs.

InhalationIf inhaled, remove to fresh air. Get medical attention if symptoms appear.Skin contactWash with soap and water. Get medical attention if symptoms appear.

**Ingestion** Do not ingest. Get medical attention if symptoms appear.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training.

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

Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Skin contact

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

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

**Notes to physician** 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** No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

**Suitable extinguishing media**Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

No specific fire or explosion hazard.

mixture

Hazardous combustion products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

5.3 Advice for firefighters

Special precautions for firefighters Pro

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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level

of protection for chemical incidents.



Article Number 25900031-8

Page: 3/9



### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding For non-emergency personnel

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk 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 For emergency responders

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform 6.2 Environmental precautions the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill 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.

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Large spill

Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section

13 for waste disposal.

See Section 1 for emergency contact information. 6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

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

Advice on general occupational

hygiene

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.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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.

7.3 Specific end use(s) Recommendations

Analytical chemistry. Laboratory chemicals Research and Development

Industrial sector specific solutions Not available.

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
sucrose	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 20 mg/m³ 15 minute(s). TWA: 10 mg/m³ 8 hour(s).

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### Derived effect levels

No DELs available.

# Predicted effect concentrations

No PECs available.

### 8.2 Exposure controls



Article Number 25900031-8

Page: 4/9 Validation date 27 April 2011

Version 8

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**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.

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

Personal protective equipment for the body should be selected based on the task being performed and **Body protection** 

the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task Other skin protection

being performed and the risks involved and should be approved by a specialist before handling this

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory protection

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the **Environmental exposure controls** 

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

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## **Appearance**

Physical state Solid Yellow Colour Odourless. Odour Not available Odour threshold Not available. Melting point/freezing point Not available. Not available. Initial boiling point and boiling ranae

Flash point

[Product does not sustain combustion.]

**Evaporation rate** Not available. Not available Flammability (solid, gas) **Burning time** Not available. Not available. **Burning** rate Not available. Upper/lower flammability or

explosive limits

Not available. Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies) Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available.

Not available Auto-ignition temperature Not available. **Decomposition temperature** Not available Viscosity

**Explosive properties** Non-explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible

materials, organic materials, metals, acids, alkalis and moisture.

Oxidising properties Not available



Article Number 25900031-8

Page: 5/9

Validation date 27 April 2011



### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** The product is stable.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid No specific data.10.5 Incompatible materials No specific data.

10.6 Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sucrose iron (II) sulfate (1:1) heptahydrate	LD50 Oral LD50 Oral		29700 mg/kg 1520 mg/kg	-

Conclusion/Summary

Not available.

#### Acute toxicity estimates

Route	ATE value
Oral	25252.5 mg/kg

Irritation/Corrosion

Conclusion/Summary Not available.

Sensitiser

Conclusion/Summary 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)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

Information on the likely routes of Routes of entry anticipated:Oral, Dermal, Inhalation.

exposure

# Potential acute health effects

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics



Article Number 25900031-8

Page: 6/9

Validation date 27 April 2011



Inhalation No specific data. Ingestion No specific data. Skin contact No specific data. No specific data Eye contact

### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Not available. Potential immediate effects

Potential delayed effects

Not available.

Long term exposure

Potential immediate effects Not available.

Not available. Potential delayed effects

### Potential chronic health effects

Not available.

Not available Conclusion/Summary

No known significant effects or critical hazards. General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity **Teratogenicity** No known significant effects or critical hazards. No known significant effects or critical hazards. **Developmental effects** Fertility effects No known significant effects or critical hazards.

Other information Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
edetic acid	Acute EC50 113000 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
iron (II) sulfate (1:1) heptahydrate		Fish - Lepomis macrochirus Fish - Lepomis macrochirus Daphnia Fish	96 hours 96 hours 48 hours 96 hours

Conclusion/Summary Not available.

### 12.2 Persistence and degradability

Conclusion/Summary Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
edetic acid	-3.34	1	low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc Not available.

Mobility Not available.

### 12.5 Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable.

No known significant effects or critical hazards. 12.6 Other adverse effects



Article Number 25900031-8

Validation date 27 April 2011



Page: 7/9

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Significant quantities of

waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal

contractor. 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.

**Hazardous waste** Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as

defined by EU Directive 91/689/EEC.

**Packaging** 

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste packaging should be

recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** This material and its container must be disposed of in a safe way. 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**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

14.7 Transport in bulk according to Annex II of MARPOL

Not available.

73/78 and the IBC Code

### **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures

Not applicable.

and articles

Other EU regulations

**Europe inventory** All components are listed or exempted.

Black List Chemicals Not listed



Article Number 25900031-8

Page: 8/9
Validation date 27 April 2011

Version 8

**Priority List Chemicals** 

Listed Integrated pollution prevention

and control list (IPPC) - Air

Not listed

Integrated pollution prevention and control list (IPPC) - Water

Not listed

International regulations

**Chemical Weapons Convention** List Schedule I Chemicals

Not listed

**Chemical Weapons Convention** 

List Schedule II Chemicals

Not listed

**Chemical Weapons Convention** List Schedule III Chemicals

Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H H302 Harmful if swallowed. H315 Causes skin irritation. statements

H319 Causes serious eye irritation.

Full text of classifications Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 [CLP/GHS]

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

R22- Harmful if swallowed. Full text of abbreviated R phrases

R36- Irritating to eyes.

R36/38- Irritating to eyes and skin.

Xn - Harmful Full text of classifications [DSD/DPD] Xi - Irritant

28 April 2011 Date of printing Date of issue/ Date of revision 27 April 2011 Date of previous issue 07 April 2011

Version 8

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Article Number 25900031-8

Page: 9/9