

## MATERIAL SAFETY DATA SHEET

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>PRODUCT NAME</b>	<b><i>BIOKITS</i> Hazelnut Assay Kit</b>
PRODUCT NUMBERS	902084L
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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### 2. INFORMATION ON COMPONENTS

CONTENTS	A matched set of components of : 48 well Hazelnut Plate 1 x vial Hazelnut Biotin 5 x vials Hazelnut Standard 1 x vial Hazelnut Spike Control 1 x vial Avidin Peroxidase Conjugate 1 x vial Stop Solution (25% phosphoric acid) 1 vial TMB Solution 1 x vial Wash Solution 1 x vial Diluent Concentrate Type 8
CAS No	None assigned for the product
EC No	None assigned for the product
Use	For the quantitative determination of hazelnut protein in foodstuffs by immunoassay.
HAZARDOUS INGREDIENT(S)	Listed below for each component

Component Part: Hazelnut Plate

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>Hazelnut Plate</b>
PRODUCT NUMBERS	502364K
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS	48 microwell polystyrene plate
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For the quantitative determination of hazelnut protein content in foodstuffs by immunoassay For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
None			

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## 3. HAZARDS IDENTIFICATION

Risks	None
Special Risk Conditions	None

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## 4. FIRST-AID MEASURES

Inhalation	Unlikely to be contaminated by these routes
Skin Contact	
Eye contact	
Ingestion	
Further Medical treatment	

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## 5. FIRE FIGHTING MEASURES

Oxidising agent	In case of fire do not breathe fumes
Extinguishing Media	In case of fire keep away from combustible materials, decomposes to form toxic gas
Fire fighting protective equipment	Use water spray, CO <sub>2</sub> dry chemical powder or appropriate foam. Wear self contained breathing apparatus

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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages	Solid material not applicable
Spill treatment method	

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## 7. HANDLING AND STORAGE

HANDLING	No precautions necessary
STORAGE	Store at 2-8 °C
Storage Life	Total storage life at recommended conditions 12 months

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable
Eye protection	Not applicable
Gloves	Latex or other light weight gloves
Other	Lab coat

**Component Part:**                    **Hazelnut Plate**

Occupational exposure limits                    None set

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	There are no unusual properties.
Colour	Solid
Odour	Colourless
pH (Value)	Odourless
Boiling point (°C)	Not applicable
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not Applicable

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**10. STABILITY & REACTIVITY**

Stable

Hazardous reactions	Keep away from combustible materials
Hazardous Decomposition Products	On combustion decomposes to form toxic gas

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**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure.
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use.
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use.
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use.

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**12. ECOLOGICAL INFORMATION**

No information available

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

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**15. REGULATORY INFORMATION**

R and S Phrases	Not classified as Dangerous for Supply/Use In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.
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**16. OTHER INFORMATION**

This section of data sheet relating to Hazelnut Plates is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

Component Part:

Hazelnut Biotin

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>Hazelnut Biotin</b>
PRODUCT NUMBERS	502365H
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS	Hazelnut antibody-biotin conjugated extract in phospho buffered saline, containing thiomersal (<0.01%)
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CAS No	None assigned for the component
EC No	None assigned for the component
Use	For the quantitative determination of hazelnut protein in foodstuffs by immunoassay.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Di-Sodium hydrogen orthophosphate	7558-79-4		
Sodium di-Hydrogen orthophosphate	13472-35-0		
Sodium Chloride	7647-14-5		
Thiomersal	54-64-8	T	
Tween 80	9005-65-6		
Gelatin	9000-70-8		

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## 3. HAZARDS IDENTIFICATION

Risks	None identified
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Special Risk Conditions	None Identified
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## 4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media Fire fighting protective equipment	Use water spray, CO <sub>2</sub> , dry chemical powder or appropriate foam.
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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
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Spill treatment method	Not applicable.
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## 7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 2-8°C

**Component Part:** Hazelnut Biotin

Storage Life Total storage life at recommended conditions 12 months

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**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

	There are no unusual properties. Similar chemical properties as water
Form	Liquid
Colour	Pink
Odour	Odourless
pH (Value)	7.2
Boiling point (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.00

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**10. STABILITY & REACTIVITY**

Stable	Under advised storage conditions 12 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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**12 ECOLOGICAL INFORMATION**

No information available

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

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**15. REGULATORY INFORMATION**

R and S Phrases	Not classified as Dangerous for Supply/Use In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.
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**16. OTHER INFORMATION**

This part of the data sheet relating to the Hazelnut biotin is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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Component Part:

Hazelnut Spike Control

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>Hazelnut Spike Control</b>
PRODUCT NUMBERS	502389S
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS	1.15mL of extracted hazelnut protein in a Tris buffered saline, containing thiomersal (<0.01%)
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For the quantitative determination of hazelnut protein in foodstuffs by immunoassay. For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Tris	7365-44-8		
Sodium Chloride	7647-14-5		
Thiomersal	54-64-8	T	
Gelatin	9000-70-8		

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## 3. HAZARDS IDENTIFICATION

Risks	None identified
Special Risk Conditions	None Identified

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## 4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media Fire fighting protective equipment	Use water spray, CO <sub>2</sub> dry chemical powder or appropriate foam.
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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Not applicable.

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## 7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 2-8 °C
Storage Life	Total storage life at recommended conditions 12 months

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**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Colourless
Odour	Odourless
pH (Value)	8.2
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

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**10. STABILITY & REACTIVITY**

Stable	Under advised storage conditions 12 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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**12. ECOLOGICAL INFORMATION**

No information available

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

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**15. REGULATORY INFORMATION**

R and S Phrases	Not classified as Dangerous for Supply/Use In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.
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**16. OTHER INFORMATION**

This part of the data sheet relating to the Hazelnut Spike Control is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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Component Part:

Hazelnut Standards

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>Hazelnut Standards</b>
PRODUCT NUMBERS	502384D, 502385B, 502386Y, 502387W, 502388U
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS	1.15mL of purified hazelnut in phospho buffered saline, containing thiomersal (<0.01%)
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For the quantitative determination of hazelnut protein in foodstuffs by immunoassay. For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Di-Sodium hydrogen orthophosphate	7558-79-4		
Sodium di-Hydrogen orthophosphate	13472-35-0		
Sodium Chloride	7647-14-5		
Thiomersal	54-64-8	T	
Tween 80	9005-65-6		
Gelatin	9000-70-8		
Polyoxyethylene 23 lauryl ester	9002-92-0		
IGEPAL CA-630	9036-19-5	F+, T	

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## 3. HAZARDS IDENTIFICATION

Risks	None identified
Special Risk Conditions	None Identified

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## 4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, CO <sub>2</sub> dry chemical powder or appropriate foam.
Fire fighting protective equipment	

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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Not applicable.

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## 7. HANDLING AND STORAGE

**Component Part: Hazelnut Standards**

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 2-8 °C
Storage Life	Total storage life at recommended conditions 12 months

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**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Colourless
Odour	Odourless
pH (Value)	7.2
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

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**10. STABILITY & REACTIVITY**

Stable	Under advised storage conditions 12 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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**12. ECOLOGICAL INFORMATION**

No information available

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

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**15. REGULATORY INFORMATION**

Not classified as Dangerous for Supply/Use

**Component Part:****Hazelnut Standards**

## R and S Phrases

In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.

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**16. OTHER INFORMATION**

This part of the data sheet relating to the hazelnut standards is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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Component Part:

Avidin Peroxidase Conjugate

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>Avidin Peroxidase Conjugate</b>
PRODUCT NUMBERS	502087K
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS 6.5mL of Avidin Peroxidase Conjugate (<0.025%) in phospho buffered saline containing ANS (0.05%) and Thiomersal (<0.01%)

CAS No None assigned for the component  
EC No None assigned for the component  
Use For the quantitative determination of hazelnut protein in foodstuff by immunoassay.  
For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Di-Sodium hydrogen orthophosphate	7558-79-4		
Sodium di-Hydrogen orthophosphate	13472-35-0		
Sodium Chloride	7647-14-5		
Thiomersal	54-64-8	T	
Tween 80	9005-65-6		
ANS	28836-03-05	Xi	36/37/38

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## 3. HAZARDS IDENTIFICATION

Risks None identified

Special Risk Conditions None Identified

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## 4. FIRST-AID MEASURES

Inhalation Remove to fresh air and keep at rest. Unlikely route of exposure  
Skin Contact Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.  
Eye contact Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.  
Ingestion If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink  
Further Medical treatment Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media Use water spray, CO<sub>2</sub> dry chemical powder or appropriate foam.  
Fire fighting protective equipment

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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.  
Spill treatment method Not applicable.

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## 7. HANDLING AND STORAGE

HANDLING Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink  
STORAGE Store at 2°C – 8°C

**Component Part: Avidin Peroxidase Conjugate**

Storage Life Total storage life at recommended conditions 18 months

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**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Amber
Odour	None
pH (Value)	7.2
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not Applicable

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**10. STABILITY & REACTIVITY**

Stable	Under advised storage conditions 18 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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**12. ECOLOGICAL INFORMATION**

No information available

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

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**15. REGULATORY INFORMATION**

Not classified as Dangerous for Supply/Use

**Component Part:****Avidin Peroxidase Conjugate**

## R and S Phrases

In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.

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**16. OTHER INFORMATION**

This part of the data sheet relating to the Avidin Peroxidase Conjugate is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING**

<b>COMPONENT NAME</b>	<b>Diluent concentrate Type 8</b>
PRODUCT NUMBERS	502269D
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

**2. INFORMATION ON COMPONENTS**

CONTENTS 100mL of phospho buffered saline containing Tween 80 (0.35%),Thiomersal (<0.05%), gelatin (<2%), polyoxyethylene 23 lauryl ester (<0.02%) and IGEPAL CA-630(<0.25%)

CAS No None assigned for the component  
 EC No None assigned for the component  
 Use For the quantitative determination of hazelnut protein in foodstuff by immunoassay.  
 For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Di-Sodium hydrogen orthophosphate	7558-79-4		
Sodium di-Hydrogen orthophosphate	13472-35-0		
Sodium Chloride	7647-14-5		
Thiomersal	54 64-8	T	
Tween 80	9005-65-6		
Gelatin	9000-70-8		
Polyoxyethylene 23 lauryl ester	9002-92-0		
IGEPAL CA-630	9036-19-5	F+,T	

**3. HAZARDS IDENTIFICATION**

Risks None identified  
 Special Risk Conditions None Identified

**4. FIRST-AID MEASURES**

Inhalation Remove to fresh air and keep at rest. Unlikely route of exposure  
 Skin Contact Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.  
 Eye contact Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.  
 Ingestion If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink  
 Further Medical treatment Symptomatic treatment and supportive therapy as indicated.

**5. FIRE FIGHTING MEASURES**

Extinguishing Media Use water spray, CO<sub>2</sub> dry chemical powder or appropriate foam.  
 Fire fighting protective equipment

**6. ACCIDENTAL RELEASE MEASURES**

Small spillages Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.  
 Spill treatment method Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal. Wash spill site with water.

**7. HANDLING AND STORAGE**

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 2-8°C
Storage Life	Total storage life at recommended conditions 24 months

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

**9. PHYSICAL AND CHEMICAL PROPERTIES**

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Colourless
Odour	None
pH (Value)	7.2
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not Applicable

**10. STABILITY & REACTIVITY**

Stable	Under advised storage conditions 24 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

**11. TOXICOLOGICAL INFORMATION**

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

**12. ECOLOGICAL INFORMATION**

No information available

**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

**14. TRANSPORT INFORMATION**

Not classified as Dangerous for Transport

**15. REGULATORY INFORMATION**

Not classified as Dangerous for Supply/Use

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**16. OTHER INFORMATION**

This part of the data sheet relating to the Diluent Concentrate Type 8 is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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Component Part:

Stop Solution (25% phosphoric acid)

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

**COMPONENT NAME** Stop Solution (25% phosphoric acid)

PRODUCT NUMBERS 502205G  
Address/ Phone No Tepnel BioSystems Ltd  
1 Newtech Square  
Deeside Industrial Park  
Flintshire  
UNITED KINGDOM, CH5 2NT  
Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS 6.9mL of Orthophosphoric Acid (<25%)  
CAS No None assigned for the component  
EC No None assigned for the component  
Use For the quantitative determination of hazelnut protein in foodstuff by immunoassay.  
For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Orthophosphoric acid	007664-38-2	Xi	R36/R38

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## 3. HAZARDS IDENTIFICATION

Risks R36/38 – Irritating to eyes and skin  
Special Risk Conditions None Identified

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## 4. FIRST-AID MEASURES

Inhalation Remove to fresh air and keep at rest. Unlikely route of exposure  
Skin Contact Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.  
Eye contact Remove any contact lenses. Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.  
Ingestion If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink  
Further Medical treatment Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media Use water spray, CO<sub>2</sub> dry chemical powder or appropriate foam.  
Fire fighting protective equipment

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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.  
Spill treatment method Not applicable.

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## 7. HANDLING AND STORAGE

HANDLING Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink  
STORAGE Store at 2-8°C  
Storage Life Total storage life at recommended conditions 36 months

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators Not applicable

**Component Part:** Stop Solution (25% phosphoric acid)

Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	(100% solution) 80/1107/EEC (1996) STEL: 2ppm TWA: 1ppm

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

	This is an organic acid.
Form	Liquid
Colour	Colourless
Odour	None
pH (Value)	2
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.2

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#### 10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 36 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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#### 11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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#### 12. ECOLOGICAL INFORMATION

No information available. The products of degradation are less toxic than the material itself.

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#### 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

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#### 14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport in current form

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#### 15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use in current quantities

**Component Part:****Stop Solution (25% phosphoric acid)**

## R and S Phrases

In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.

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**16. OTHER INFORMATION**

This part of the data sheet relating to the Stop Solution (25% phosphoric acid) is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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Component Part:

TMB Substrate

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

<b>COMPONENT NAME</b>	<b>TMB Substrate</b>
PRODUCT NUMBERS	502266K
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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## 2. INFORMATION ON COMPONENTS

CONTENTS	11.0mL of TMB Substrate as supplied by Dako Ltd		
CAS No	None assigned for the component		
EC No	None assigned for the component		
Use	For the quantitative determination of hazelnut protein in foodstuff by immunoassay. For professional use only.		
HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
<20% 1-methyl-2-Pyrrolidone (M2P)	872-50-4	Xi	R36/38
< 20% Propylene Glycol	57-55-6	Xi	R36/38

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## 3. HAZARDS IDENTIFICATION

Risks	Possible risk of harm to unborn child. May be harmful by inhalation, in contact with skin and if swallowed. Material may be irritating to eyes and skin
Special Risk Conditions	None Identified

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## 4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

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## 5. FIRE FIGHTING MEASURES

Extinguishing Media Fire fighting protective equipment	Use water spray, CO <sub>2</sub> dry chemical powder or appropriate foam.
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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Not applicable.

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## 7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 2-8°C

Component Part:

TMB Substrate

Storage Life Total storage life as recommended by supplier

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#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable though may be used if vapours are irritant.
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits (M2P)	100ppm (400mg/m <sup>3</sup> ) (EC 8h TWA)

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties.
Form	Liquid
Colour	Colourless
Odour	None
pH (Value)	7.0
Boiling point (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

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#### 10. STABILITY & REACTIVITY

Stable	Under advised storage conditions as per supplier expiry date
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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#### 11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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#### 12. ECOLOGICAL INFORMATION

No information available

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#### 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

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#### 14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

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#### 15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

**Component Part:**

**TMB Substrate**

R and S Phrases

In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.

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**16. OTHER INFORMATION**

This part of the data sheet relating to the TMB substrate is prepared in accordance with Directive 91/155/EEC (93/112/EC).

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING**

<b>COMPONENT NAME</b>	<b>Wash Solution Concentrate</b>
PRODUCT NUMBERS	502259G
Address/ Phone No	Tepnel <i>BioSystems</i> Ltd 1 Newtech Square Deeside Industrial Park Flintshire UNITED KINGDOM, CH5 2NT Telephone +44 (0) 1244 280202

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**2. INFORMATION ON COMPONENTS**

CONTENTS	100mL of 10x Tris saline wash solution
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For the quantitative determination of hazelnut protein in foodstuff by immunoassay For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Tris (hydroxymethyl) methylamine	7365-44-8		
Tris hydroxymethyl amino methane HCl	1185-53-1		
Sodium Chloride	7647-14-5		
n-methylisothiazolone HCl	11-085-905	Xn	R20/22 R34-43

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**3. HAZARDS IDENTIFICATION**

Risks	(MIT) Harmful if swallowed or inhaled
Special Risk Conditions	None Identified

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**4. FIRST-AID MEASURES**

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

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**5. FIRE FIGHTING MEASURES**

Extinguishing Media	Use water spray, CO <sub>2</sub> dry chemical powder or appropriate foam.
Fire fighting protective equipment	

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**6. ACCIDENTAL RELEASE MEASURES**

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal or absorb spillage using paper towels or absorbent pad. Wash spill site with water.

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**7. HANDLING AND STORAGE**

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
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STORAGE	Store at 2-8°C
Storage Life	Total storage life at recommended conditions 36 months

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#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable though may be used if vapours are irritant.
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties.
Form	Liquid
Colour	Colourless
Odour	None
pH (Value)	7.8
Boiling point (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

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#### 10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 36 months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

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#### 11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

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#### 12. ECOLOGICAL INFORMATION

No information available

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#### 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

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#### 14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

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#### 15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

R and S Phrases

In accordance with EU directive 88/379/EEC, it has been determined that the chemical constituents of this product are classified as having no significant hazard, due to the physical/chemical nature and/or concentrations of the ingredients present.

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**16. OTHER INFORMATION**

This part of the data sheet relating to the Wash Solution Concentrate is prepared in accordance with Directive 91/155/EEC (93/112/EC).

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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