# MATERIAL SAFETY DATA SHEET

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

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>BIOKITS Cooked Species Identification Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT NUMBERS</td>
<td>902011Q (Mixed), 902013L (Beef), 902012N (Pork), 902022K (Sheep), 902023H (Poultry), 902078F (Horse).</td>
</tr>
</tbody>
</table>
| Address/ Phone No | Tepnel BioSystems Ltd  
1 Newtech Square  
Deeside Industrial Park  
Flintshire  
UNITED KINGDOM, CH5 2NT  
Telephone +44 (0) 1244 280202 |

## 2. INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>A matched set of components of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96 or 48 well Species Specific Sensitised Microwell Module</td>
</tr>
<tr>
<td></td>
<td>2-4 x vials Anti-Species (Cooked) Biotinylate</td>
</tr>
<tr>
<td></td>
<td>4 x vials (Cooked) Positive Control</td>
</tr>
<tr>
<td></td>
<td>1 x vial Avidin Peroxidase Conjugate</td>
</tr>
<tr>
<td></td>
<td>1 x vial Stop Solution (25% phosphoric acid)</td>
</tr>
<tr>
<td></td>
<td>1 x vial TMB Solution</td>
</tr>
<tr>
<td></td>
<td>1 x vial Wash Solution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>None assigned for the product</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC No</td>
<td>None assigned for the product</td>
</tr>
<tr>
<td>Use</td>
<td>For the qualitative determination of cooked species content in meat/meat products/feedstuff by immunoassay.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT(S)</th>
<th>Listed below for each component</th>
</tr>
</thead>
</table>
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

COMPONENT NAME

CMS Antibody Sensitised Microwell Module

PRODUCT NUMBERS

502091U (Mixed), 502356J (Beef), 502357G (Pork), 502359C (Sheep), 502358E (Poultry), 502355L (Horse).

Address/ Phone No

Tepnel BioSystems Ltd
1 Newtech Square
Deeside Industrial Park
Flintshire
UNITED KINGDOM, CH5 2NT
Telephone +44 (0) 1244 280202

2. INFORMATION ON COMPONENTS

CONTENTS

96 or 48 microwell polystyrene plate

CAS No

None assigned for the component

EC No

None assigned for the component

Use

For the qualitative determination of cooked species content in meat/meat products/feedstuff by immunoassay.
For professional use only.

3. HAZARDS IDENTIFICATION

Risks

None

Special Risk Conditions

None

4. FIRST-AID MEASURES

Inhalation

Unlikely to be contaminated by these routes

Skin Contact

Eye contact

Ingestion

Further Medical treatment

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, CO₂ dry chemical powder or appropriate foam. Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Small spillages

Spill treatment method

Solid material not applicable

7. HANDLING AND STORAGE

HANDLING

No precautions necessary

STORAGE

Store at 2-8°C

Storage Life

Total storage life at recommended conditions 36 months

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators

Not applicable

Eye protection

Not applicable

Gloves

Latex or other light weight gloves
<table>
<thead>
<tr>
<th>Component Part:</th>
<th>CMS Antibody Sensitised Microwell Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>Lab coat</td>
</tr>
<tr>
<td>Occupational exposure limits</td>
<td>None set</td>
</tr>
</tbody>
</table>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: Solid
- **Colour**: Colourless
- **Odour**: Odourless
- **Boiling point (°C)**: Not applicable
- **Flash Point (°C)**: Not Applicable
- **Flammable limits**: Not Applicable
- **Auto Ignition Temperature (°C)**: Not Applicable
- **pH (Value)**: Not applicable
- **Specific gravity**: Not Applicable

There are no unusual properties.

### 10. STABILITY & REACTIVITY

Stable

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

### 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.

### 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

- **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.

### 16. OTHER INFORMATION

This section of the data sheet relating to the CMS Antibody Sensitised Microwell Modules 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.
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

COMPONENT NAME: Anti-Species (Cooked) Biotinylate

PRODUCT NUMBERS: 502084R (Beef), 502085P (Pork), 502130M (Sheep), 502086M (Poultry), 502361R (Horse)

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

2. INFORMATION ON COMPONENTS

CONTENTS: Species specific conjugated biotin 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 qualitative determination of cooked species content in meat/meat products/feedstuff by immunoassay. For professional use only.

HAZARDOUS INGREDIENT(S)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Symbol</th>
<th>R Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di-Sodium hydrogen orthophosphate</td>
<td>7558-79-4</td>
<td></td>
</tr>
<tr>
<td>Sodium di-Hydrogen orthophosphate</td>
<td>13472-35-0</td>
<td></td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td></td>
</tr>
<tr>
<td>Thiomersal</td>
<td>54-64-8</td>
<td>T</td>
</tr>
<tr>
<td>Tween 80</td>
<td>9005-65-6</td>
<td></td>
</tr>
</tbody>
</table>

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, CO₂, 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: Not applicable.

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
Component Part: Anti-Species (Cooked) Biotinylate

STORAGE
Store at 2-8°C

Storage Life
Total storage life at recommended conditions 18 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. Similar chemical properties as water
Form
Liquid
Colour
Amber
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

10. STABILITY & REACTIVITY
Stable
Under advised storage conditions 18 months
Hazardous reactions
None known
Hazardous Decomposition
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
**Component Part:** Anti-Species (Cooked) Biotinylate

| 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. |

**16. OTHER INFORMATION**

This part of the data sheet relating to the Anti-Species (Cooked) Biotinylate 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.
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

COMPONENT NAME (Cooked) Positive Control

PRODUCT NUMBERS  502088H (Beef), 502089F (Pork), 502090W (Poultry), 502129V (Sheep), 502360T (Horse).
Address/ Phone No  Tepnel BioSystems Ltd
1 Newtech Square
Deeside Industrial Park
Flintshire
UNITED KINGDOM, CH5 2NT
Telephone +44 (0) 1244 280202

2. INFORMATION ON COMPONENTS

CONTENTS  1.5mL 5% species specific in a phospho buffered saline, containing thiomersal (<0.01%)

CAS No   None assigned for the component
EC No    None assigned for the component
Use      For the qualitative determination of cooked species content in meat/meat products/feedstuff 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

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, CO₂ dry chemical powder or appropriate foam.

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.

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: (Cooked) Positive Control

Storage Life

Total storage life at recommended conditions 18 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
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

10. STABILITY & REACTIVITY

Stable
Under advised storage conditions 18 months

Hazardous reactions
None known

Hazardous Decomposition
Not applicable

Products

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
Component Part: (Cooked) Positive Control

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.

16. OTHER INFORMATION

This part of the data sheet relating to the (Cooked) Positive 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.
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

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

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 qualitative determination of cooked species content in meat/meat
products/feedstuff 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                                        Xi                           36/37/38
ANS  28836-03-05

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, CO₂ 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  Not applicable.

7. HANDLING AND STORAGE
Component Part: Avidin Peroxidase Conjugate

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

Storage Life
Total storage life at recommended conditions 18 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: Amber
- 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 18 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
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.

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.
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

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 qualitative determination of cooked species content in meat/meat products/feedstuff by immunoassay. For professional use only.

HAZARDOUS INGREDIENT(S)

CAS No Symbol R Phrases
Orthophosphoric acid 007664-38-2 Xi R36/R38

3. HAZARDS IDENTIFICATION

Risks: R36/38 – Irritating to eyes and skin

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: 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, CO₂ 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: Not applicable.

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

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
Component Part: Stop Solution (25% phosphoric acid)

<table>
<thead>
<tr>
<th>Respirators</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye protection</td>
<td>Splash proof goggles or safety glasses</td>
</tr>
<tr>
<td>Gloves</td>
<td>Latex or other light weight gloves</td>
</tr>
<tr>
<td>Other</td>
<td>Lab coat</td>
</tr>
<tr>
<td>Occupational exposure limits</td>
<td>(100% solution)</td>
</tr>
<tr>
<td></td>
<td>80/1107/EEC (1996)</td>
</tr>
<tr>
<td></td>
<td>STEL: 2ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 1ppm</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

This is an organic acid.

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>2</td>
</tr>
<tr>
<td>Boiling point (°C)</td>
<td>100</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable limits</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.2</td>
</tr>
</tbody>
</table>

10. STABILITY & REACTIVITY

Stable Under advised storage conditions 36 months

Hazardous reactions None known

Hazardous Decomposition Not applicable

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.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport in current form

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.

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

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

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 qualitative determination of cooked species content in meat/meat
products/feedstuff 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

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

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, CO₂ 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  Not applicable.

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
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/m³) (EC 8h TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Colour: Colourless
Odour: None
Boiling point (°C): Not Applicable
pH (Value): 7.0
Flash Point (°C): Not Applicable
Flammable limits: Not Applicable
Auto Ignition Temperature (°C): Not Applicable
Specific gravity: 1.0

10. STABILITY & REACTIVITY

Stable: Under advised storage conditions as per supplier expiry date
Hazardous reactions: None known
Hazardous Decomposition: 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
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.

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).

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

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

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 qualitative determination of cooked species content in meat/meat products/feedstuff by immunoassay.
For professional use only.

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

3. HAZARDS IDENTIFICATION

Risks: (MIT) Harmful if swallowed or inhaled
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, CO₂ dry chemical powder or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Small 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.

7. HANDLING AND STORAGE

Issue 01: Date 08/2008
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

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators
Not applicable though may be used if vapours are irritating.

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

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

10. STABILITY & REACTIVITY

Stable
Under advised storage conditions 36 months

Hazardous reactions
None known

Hazardous Decomposition
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
Component Part: Wash Solution Concentrate

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.

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.