MATERIEL SAFETY DATA SHEET
(According to regulation (EC) 1907/2006 and amendments)
Product Name: PTH-120min IRMA
Catalog #: KIP1491

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier
Product Name: PTH-120min IRMA
Catalog #: KIP1491
Kit Components: Coated tubes

1.2 Intended Use
For In Vitro Diagnostic Use. See product literature for details.

1.3 Company
DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone
DIAsource (only office hours): +32 (0)10/84.99.11
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

<table>
<thead>
<tr>
<th>Shipping Information</th>
<th>IATA</th>
<th>IMDG</th>
<th>US DOT</th>
<th>European ADR</th>
<th>Canadian TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/ID Number</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
</tr>
<tr>
<td>Shipping Name</td>
<td>Radioactive Material, excepted package-limited quantity of material</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Class</td>
<td>7 Radioactive Material</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification Code</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing Group</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Provisions</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Information</td>
<td>IATA ERG Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EmS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NAERG Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Page 1/27
3 OTHER INFORMATION

3.1 General Precautions:
- The products are for professional laboratory use only.
- Users should have a thorough understanding of the Instructions for Use prior to their use of this kit.
- Good Laboratory Practices (GLP) should be followed to ensure the safe use and disposal of the reagents.
- Never pipet by mouth and avoid contact of reagents and specimens with skin and mucous membranes.
- Do not smoke, eat, drink or apply cosmetics in areas where specimens or kit reagents are handled.
- Wear disposable latex gloves when handling reagents

3.2 Other hazard
Tracer Contains material from bovine origin
Incubation Buffer Contains material from sheep origin

This kit contains material of human origin. Although these materials have been tested for HBsAg, anti-HCV and anti-HIV-1/2 and have been found not reactive, they should be considered as potentially infectious.

Calibrators Contains material from human origin
Controls Contains material from human origin

3.3 Labeling of tube:
Each tube can only be used once
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Tracer
Catalog #: Component of KIP1491

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description: In vitro diagnostic reagent
Colorless; Clear; Liquid; Odorless

Classification according to EC 1272/2008
(CLPGHS) Not classified as hazardous per EC 1272/2008
Classification according to US-OSHA
(HCS 29 CFR 1910.1200) and UN GHS
Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS
Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

Iodine-125 is a gamma-rays and X-rays emitter. Radiation can be protected by 1mm of lead. Half-life: 59.4 days.

See Section 11 Toxicological Information for more detailed health information.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
<th>Hazard Classification of Pure Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>% by wt.</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>&lt; 0.05</td>
</tr>
<tr>
<td>CAS # 26628-22-8</td>
<td>Acute Tox. Oral 2</td>
</tr>
<tr>
<td>EINECS# 247-852-1</td>
<td>Aquatic Acute 1</td>
</tr>
<tr>
<td>Index # 011-004-00-7</td>
<td>Aquatic Longterm 1</td>
</tr>
<tr>
<td></td>
<td>H300; H400; H410</td>
</tr>
</tbody>
</table>

2 - Substance with Community workplace exposure limits
8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation**
If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact**
If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

**Skin Contact**
In case of skin contact, remove any contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

**Ingestion**
If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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

No adverse symptoms or effects have been identified.

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

No specific medical attention or treatment required.

### 5 FIRE FIGHTING MEASURES

**Flammable properties:** Nonflammable aqueous solution.

#### 5.1 Extinguishing media

In case of fire use carbon dioxide (CO₂), dry chemical, water spray or foam.
For large fires use extinguishing media suitable for surrounding fire.

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

**Special Fire and Explosion Hazards:** No special Hazards determined.
Hazardous Combustion Products: No Combustible products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information

No further relevant information available.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains a material of animal origin. Observe general safety guidelines for protection during clean up procedures. Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions

Contain spill to prevent migration. Isolate area and absorb spill with sand, vermiculite or other inert absorbent material. Place absorbed material in container suitable for disposal. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of all waste material in accordance with local and facility guidelines.

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations. Radioactive material is subject to the regulations of each country. Dispose of all waste material in accordance with local guidelines.

6.4 Reference to other sections

Refer sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label. To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific Use(s)

No further relevant information available.

8 EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1 Control parameters

Exposure Limits
US OSHA

None established

Compiled by:
DIAsource ImmunoAssays S.A
2 rue du Bosquet
1348 - Louvain-la-Neuve  Belgium
MATERIEL SAFETY DATA SHEET
(According to regulation (EC) 1907/2006 and amendments)
Product Name: PTH-120min IRMA
Catalog #: KIP1491

ACGIH
Sodium Azide
CAS# 26628-22-8
0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid)
(vapor)

DFG MAK
Sodium Azide
CAS# 26628-22-8
0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK
(inhalable fraction)

Ireland
Sodium Azide
CAS# 26628-22-8
0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential
for cutaneous absorption

IOELVs
Sodium Azide
CAS# 26628-22-8
Possibility of significant uptake through the skin; 0.1 mg/m³ TWA;
0.3 mg/m³ STEL

NIOSH
None established

Japan
None established

8.2 Exposure controls
Engineering Controls
Place vial behind a metal shield, away from the user.

Eye Protection
Safety glasses or chemical goggles should be worn to prevent eye
contact.
Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or
appropriate government standards.

Skin Protection
Impervious gloves, such as Nitrile or equivalent, should be worn to
prevent skin contact.
Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or
appropriate government standards.

Respiratory Protection
Under normal conditions, the use of this product should not require
respiratory protection. If overexposure should occur and ventilation is
not adequate to maintain airborne concentrations at acceptable levels,
the use of respiratory protection should be evaluated by a qualified
professional.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Transparency</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>6.00</td>
</tr>
<tr>
<td>Specific Gravity (water = 1.0)</td>
<td>1.00 @20°C</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Miscible</td>
</tr>
<tr>
<td>Water</td>
<td></td>
</tr>
<tr>
<td>Organic</td>
<td>Not determined</td>
</tr>
<tr>
<td>Coefficient of Water/Oil</td>
<td>Not determined</td>
</tr>
<tr>
<td>Distribution</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temp.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

9.2 Other information
No further relevant information available.
10 STABILITY AND REACTIVITY

10.1 Reactivity
No further relevant information available.

10.2 Chemical Stability
The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions
Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid
Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials
Metals and metallic compounds

10.6 Hazardous Decomposition Products
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity Data for Hazardous Ingredients</th>
<th>Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.</td>
</tr>
<tr>
<td>CAS# 26628-22-8</td>
<td>No data available.</td>
</tr>
<tr>
<td>Primary Routes of Exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>No data available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This product does not contain a reportable concentration (≥ 0.1%) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available.</td>
</tr>
<tr>
<td>Other information</td>
<td>This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.</td>
</tr>
</tbody>
</table>
12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

**Fresh Water Species**

- **Sodium Azide**
  
  *CAS# 26628-22-8*
  
  96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]

- **Microtox**
  
  No information available

- **Water Flea**
  
  No information available

- **Fresh Water Algae**
  
  No information available

12.2 Persistence and degradability

Not determined for the product.

12.3 Bioaccumulation

Not determined for the product.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

**Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines.

See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or approved waste-disposal company for information.

**Package disposal**

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
## 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

### 14 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

<table>
<thead>
<tr>
<th>Shipping Information</th>
<th>IATA</th>
<th>IMDG</th>
<th>US DOT</th>
<th>European ADR</th>
<th>Canadian TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/ID Number</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
<td>2910</td>
</tr>
<tr>
<td>Shipping Name</td>
<td>Radioactive Material, excepted package-limited quantity of material</td>
<td>Radioactive Material</td>
<td>Radioactive Material</td>
<td>Radioactive Material</td>
<td>Radioactive Material</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Classification Code</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>None</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special Group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special Precautions</td>
<td>Not applicable</td>
<td>F-I, S-S</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental Hazard</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>161</td>
<td>Not applicable</td>
<td>161</td>
</tr>
</tbody>
</table>

**Special precautions for user:** No special precautions for users are required.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

### 15 REGULATORY INFORMATION

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

**Us Federal and State Regulations**

- **SARA 313**
  - Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration.

- **CERCLA RG’s, 40 CFR 302.4**
  - Sodium Azide is listed.
  - Iodine 125 has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, DIAsource ImmunoAssays advises you of the following warning:
  
  **WARNING:** This product contains a chemical known to the State of California to cause cancer.

- **Massachusetts MSL**
  - Sodium Azide is listed.

- **New Jersey Dept. of Health RTK List**
  - Sodium Azide is listed.

- **Pennsylvania RTK**
  - Sodium Azide is listed.
EU regulations

This SDS complies with EC Regulations 1907/2006 (REACH and amendments).

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

Ingredient with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>DIAsource ImmunoAssays Safety Rating</th>
<th>Flammability: 0</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health: 1</td>
<td>0 = None</td>
</tr>
<tr>
<td></td>
<td>Reactivity with water: 0</td>
<td>1 = Slight</td>
</tr>
<tr>
<td></td>
<td>Contact: 1</td>
<td>2 = Caution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 = Severe</td>
</tr>
</tbody>
</table>

Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany’s maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
MATERIEL SAFETY DATA SHEET
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IOELVs - European Unions’ Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:

English is acceptable for our MSDS as the following conditions are met:
• Medical specialists (users) are well educated in the English language

WHILE DIAsource ImmunoAssays S.A. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, DIAsource ImmunoAssays MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. DIAsource ImmunoAssays SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Reconstitution Solution
Catalog #: Component of KIP1491

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description: Mixture
Classification according to EC 1272/2008 (CLP/GHS):
Not classified as hazardous per EC 1272/2008
Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS:
Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS
Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.
See Section 11 Toxicological Information for more detailed health information.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Compiled by:
DIAsource ImmunoAssays S.A
2 rue du Bosquet
1348 - Louvain-la-Neuve Belgium
Hazardous Ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>% by wt.</th>
<th>Hazard Classification of Pure Ingredients</th>
<th>EU 1272/2008 CLP/GHS</th>
<th>GHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>&lt; 0.05</td>
<td>Acute Tox. Oral 2</td>
<td>Acute Tox. Oral 2</td>
<td>2,8</td>
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<tr>
<td>CAS # 26628-22-8</td>
<td></td>
<td>Aquatic Acute 1</td>
<td>Aquatic Acute 1</td>
<td></td>
</tr>
<tr>
<td>EINECS# 247-852-1</td>
<td></td>
<td>Aquatic Longterm 1</td>
<td>Aquatic Longterm 1</td>
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<td>Index # 011-004-00-7</td>
<td></td>
<td>H300; H400; H410</td>
<td>H300; H400; H410</td>
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</tr>
</tbody>
</table>

2 - Substance with Community workplace exposure limits
8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact: If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Skin Contact: In case of skin contact, remove any contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion: If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

5 FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined.

Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information

No further relevant information available.
6  ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures. Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions

Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

7  HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8° C, as directed on the product label. To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses

No further relevant information available.

8  EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Source</th>
<th>Exposure Limit</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>US OSHA</td>
<td>None established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>0.29 mg/m³ Ceiling (as NaN₃)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.11 ppm Ceiling (as Hydrazoic acid)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>CAS# 26628-22-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DFG MAK</td>
<td>0.4 mg/m³ Peak (inhalable fraction)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.2 mg/m³ TWA MAK</td>
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<tr>
<td></td>
<td>(inhalable fraction)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ireland</td>
<td>0.1 mg/m³ TWA (as NaN₃)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.3 mg/m³ STEL (as NaN₃)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Potential for cutaneous absorption</td>
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<td></td>
</tr>
<tr>
<td>IOELVs</td>
<td>Possibility of significant uptake</td>
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<td></td>
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<tr>
<td></td>
<td>through the skin; 0.1 mg/m³ TWA;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.3 mg/m³ STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH</td>
<td>None established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>None established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

**Engineering Controls**
No special engineering controls are required. Use with good general ventilation.

**Eye Protection**
Safety glasses or chemical goggles should be worn to prevent eye contact.
Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

**Skin Protection**
Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

**Respiratory Protection**
Under normal conditions, the use of this product should not require respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical State</td>
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<td>Color</td>
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<td>Transparency</td>
<td>Clear</td>
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<td>Odor</td>
<td>Odorless</td>
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<tr>
<td>pH</td>
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<tr>
<td>Solubility:</td>
<td>Water</td>
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<tr>
<td>Coefficient of Water/Oil</td>
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<tr>
<td>Distribution</td>
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<td>Freezing Point</td>
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<td>Autoignition Temp.</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Percent Volatiles</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not determined</td>
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<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other information
No further relevant information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity
No further relevant information available.

10.2 Chemical Stability
The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions
Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid
Avoid contact with incompatible materials.
Avoid exposure to heat and direct sunlight.
10.5 **Incompatible materials**
Metals and metallic compounds

10.6 **Hazardous Decomposition Products**
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| Toxicity Data for Hazardous Ingredients | Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg |
| Skin Corrosion/Irritation | No data available. |
| Serious eye damage/eye irritation | No data available. |
| Respiratory/skin sensitization | No data available. |
| Carcinogenicity | No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation. |
| Germ cell mutagenicity | No data available. |
| Reproductive Toxicity | No data available. |
| Specific target organ toxicity - single exposure | No data available. |
| Specific target organ toxicity - repeated exposure | No data available. |
| Aspiration hazard | No data available. |
| Other information | This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases. |

## 12 ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

| Fresh Water Species | 96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus:0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through] |
| Sodium Azide | CAS# 26628-22-8 |
| Microtox | No information available |
| Water Flea | No information available |
| Fresh Water Algae | No information available |

### 12.2 Persistence and degradability
Not determined for the product.
12.3 **Bioaccumulation**
Not determined for the product.

12.4 **Mobility in soil**
Not determined for the product.

12.5 **Results of PBT and vPvB assessment**
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 **Other adverse effects**
This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

### 13 DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods**

**Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

**Package disposal:**
Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 **Additional Information**

Suggested European waste catalogue 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations.

### 14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

### 15 REGULATORY INFORMATION

15.1 **Safety, health and environmental regulation/legislation specific for the substance or mixture**

**US Federal and State Regulations**

**SARA 313**

Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration.
CERCLA RG’s, 40 CFR 302.4  
Sodium Azide is listed.

California Proposition 65  
No ingredients listed.

Massachusetts MSL  
Sodium Azide is listed.

New Jersey Dept. of Health RTK List  
Sodium Azide is listed.

Pennsylvania RTK  
Sodium Azide is listed.

EU regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization  
No ingredients listed.

Canada
This product does not meet WHMIS criteria for hazardous materials.

PIN  
Not applicable

Ingredients on Ingredient Disclosure List  
Sodium Azide

Ingredient with unknown toxicological properties  
Product is exempt

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>DIAsource ImmunoAssays Safety Rating</th>
<th>Flammability: 0</th>
<th>Health: 1</th>
<th>Reactivity with water: 0</th>
<th>Contact: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Code</td>
<td>0 = None</td>
<td>1 = Slight</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 = Caution</td>
<td>3 = Severe</td>
<td></td>
</tr>
</tbody>
</table>

Hazard Class, hazard statements and risk phrase description from section 3
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany’s maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions’ Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:
English is acceptable for our MSDS as the following conditions are met:
• Medical specialists (users) are well educated in the English language

WHILE DIASOURCE IMMUNOASSAYS S.A. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, DIASOURCE IMMUNOASSAYS MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. DIASOURCE IMMUNOASSAYS SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Incubation Buffer
Catalog #: Component of KIP1491

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description: Mixture
Yellowish; Clear; Liquid; Odorless

Classification according to EC 1272/2008 (CLP/GHS)
Not classified as hazardous per EC 1272/2008 (CLP/GHS)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS
Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS
Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.
3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
<th>Hazard Classification of Pure Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>EU 1272/2008 CLP/GHS</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>Acute Tox. Oral 2</td>
</tr>
<tr>
<td>CAS # 26628-22-8</td>
<td>Aquatic Acute 1</td>
</tr>
<tr>
<td>EINECS# 247-852-1</td>
<td>Aquatic Longterm 1</td>
</tr>
<tr>
<td>Index # 011-004-00-7</td>
<td>H300; H400; H410</td>
</tr>
</tbody>
</table>

% by wt. < 0.05

2 - Substance with Community workplace exposure limits
8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact: If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Skin Contact: In case of skin contact, remove any contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion: If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

5 FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined.

Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures. Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions

Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label. To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>US OSHA</td>
<td>None established</td>
</tr>
<tr>
<td>ACGIH</td>
<td>0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid) (vapor)</td>
</tr>
<tr>
<td>Sodium Azide CAS# 26628-22-8</td>
<td></td>
</tr>
<tr>
<td>DFG MAK</td>
<td>0.4 mg/m³ Peak (inhaleable fraction); 0.2 mg/m³ TWA MAK (inhaleable fraction)</td>
</tr>
<tr>
<td>Sodium Azide CAS# 26628-22-8</td>
<td></td>
</tr>
<tr>
<td>Ireland</td>
<td>0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential for cutaneous absorption</td>
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<tr>
<td>Sodium Azide CAS# 26628-22-8</td>
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<tr>
<td>IOELVs</td>
<td>Possibility of significant uptake through the skin; 0.1 mg/m³ TWA; 0.3 mg/m³ STEL</td>
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<tr>
<td>Sodium Azide CAS# 26628-22-8</td>
<td></td>
</tr>
</tbody>
</table>
NIOSH: None established
Japan: None established

8.2 Exposure controls

Engineering Controls: No special engineering controls are required. Use with good general ventilation.

Eye Protection: Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection: Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection: Under normal conditions, the use of this product should not require respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: Liquid
- Color: Colorless
- Transparency: Clear
- Odor: Odorless
- pH: Not determined

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity (water = 1.0)</td>
<td>1.00 @20°C</td>
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<td>Solubility:</td>
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<td>Organic</td>
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<td>Coefficient of Water/Oil</td>
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<tr>
<td>Flash Point</td>
<td>Not applicable</td>
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<td>Boiling Point</td>
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<td>Evaporate Rate</td>
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</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

9.2 Other information

No further relevant information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid

Avoid contact with incompatible materials.
Avoid exposure to heat and direct sunlight.

**10.5 Incompatible materials**

Metals and metallic compounds

**10.6 Hazardous Decomposition Products**

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity Data for Hazardous Ingredients</th>
<th>Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>Common routes of entry include inhalation, ingestion and eye/skin contact.</td>
</tr>
<tr>
<td>CAS# 26628-22-8</td>
<td>Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.</td>
</tr>
<tr>
<td><strong>Primary Routes of Exposure</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.</td>
</tr>
</tbody>
</table>

### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

<table>
<thead>
<tr>
<th>Fresh Water Species</th>
<th>96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus:0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Microtox</strong></td>
<td>No information available</td>
</tr>
<tr>
<td>Water Flea</td>
<td>No information available</td>
</tr>
<tr>
<td>Fresh Water Algae</td>
<td>No information available</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

Not determined for the product.
12.3 **Bioaccumulation**
Not determined for the product.

12.4 **Mobility in soil**
Not determined for the product.

12.5 **Results of PBT and vPvB assessment**
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 **Other adverse effects**
This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

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### 13 DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods**

**Product Waste Disposal:**
Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispense of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

**Package disposal:**
Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 **Additional Information**
Suggested European waste catalogue 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations.

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### 14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

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### 15 REGULATORY INFORMATION

15.1 **Safety, health and environmental regulation/legislation specific for the substance or mixture**

**Us Federal and State Regulations**
SARA 313
Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration.

CERCLA RG’s, 40 CFR 302.4
Sodium Azide is listed.

California Proposition 65
No ingredients listed.

Massachusetts MSL
Sodium Azide is listed.

New Jersey Dept. of Health RTK List
Sodium Azide is listed.

Pennsylvania RTK
Sodium Azide is listed.

EU regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV
- list of substances subject to authorization
No ingredients listed.

Canada
This product does not meet WHMIS criteria for hazardous materials.

PIN
Not applicable

Ingredients on Ingredient Disclosure List
Sodium Azide

Ingredient with unknown toxicological properties
Product is exempt

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>DIAsource ImmunoAssays Safety Rating</th>
<th>Flammability: 0</th>
<th>Health: 1</th>
<th>Reactivity with water: 0</th>
<th>Contact: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 = None</td>
<td>1 = Slight</td>
<td>2 = Caution</td>
<td>3 = Severe</td>
</tr>
</tbody>
</table>

Hazard Class, hazard statements and risk phrase description from section 3
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany’s maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions’ Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:
English is acceptable for our MSDS as the following conditions are met:
• Medical specialists (users) are well educated in the English language

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