1.1 Product identifier

Product Name: Anti-GAD65 RIA
Catalog #: KIPM2070
Kit Components: 
- 125I labeled-tracer
- Reconstitution buffer
- Precipitation buffer
- Protein A
- Calibrators (1 - 6)
- Control sera (CI, CII)

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 nti-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</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
<td>7 Radioactive</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Material</td>
<td>Material</td>
<td>Material</td>
<td>Material</td>
<td>Materials</td>
</tr>
<tr>
<td>Classification Code</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>None</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Additional Information</td>
<td>IATA ERG Code</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>EmS</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>NAERG Code</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
**Environmental Hazard**

| Marine Polluant | Not applicable | No | Not applicable | Not applicable | Not applicable |

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

### 3 OTHER INFORMATION

Not applicable.
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Tracer
Catalog #: Component the kits mentioned on the first page

1.2 Intended Use

For Research Use Only. 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 Solid

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

2.2 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

No labelling applicable.

2.3 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Danger symbol No labelling applicable.
Signal word No labelling applicable.
Product Identifier No labelling applicable.
Danger No labelling applicable.
Supplemental Hazard Information -
Prevention statements -
Response statements -
Storage statements -
Disposal statements -

2.4 Other hazards

PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

4 FIRST AID MEASURES

4.1 Description of first aid measures
Inhalation  Remove person to fresh air and keep comfortable for breathing.
Eye Contact Wash skin with plenty of water.
Skin Contact Rinse eyes with water as a precaution.
Ingestion Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 **Environmental Precautions**

Avoid release to the environment.

6.3 **Methods and material for containment and cleaning-up**

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 **Reference to other sections**

For further information refer to section 13.

---

7 **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 **Conditions for safe storage, including any incompatibilities**

Storage conditions: Store in a well-ventilated place. Keep cool.

7.3 **Specific end uses**

No additional information available.

---

8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control parameters**

8.1.1 National occupational exposure and biological limit values

No additional information available.

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants formed

No additional information available.

8.1.4 DNEL and PNEC

No additional information available.

8.1.5 Control banding

No additional information available.

8.2 **Exposure controls**

8.2.1 Appropriate engineering controls

*Appropriate engineering controls:* Ensure good ventilation of the work station.

8.2.2 Personal protection equipment

*Personal protective equipment symbol(s):*  

8.2.2.1 Eye and face protection

Eye protection: Safety glasses.
8.2.2.2 Skin protection
Skin and body protection: Wear suitable protective clothing.
Hand protection: Protective gloves.
8.2.2.3 Respiratory protection
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
8.2.2.4 Thermal hazards
No additional information available
8.2.3 Environmental exposure controls
Environmental exposure controls: Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Decomposition temperature</th>
<th>Color</th>
<th>pH</th>
<th>Viscosity, kinematic</th>
<th>Solubility</th>
<th>Partition coefficient n-octanol/water (Log Kow)</th>
<th>Vapour pressure</th>
<th>Vapour pressure @50°C</th>
<th>Density</th>
<th>Relative density</th>
<th>Relative vapour density @20°C</th>
<th>Particle characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
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<td>Not available</td>
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<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
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<td>Not available</td>
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<td>Not available</td>
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<td>Not available</td>
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<tr>
<td>Boiling point</td>
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<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
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</tr>
<tr>
<td>Lower explosion limit</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
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<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
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<td>Not available</td>
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</tr>
<tr>
<td>Auto-ignition</td>
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<td>Not available</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
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<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other information

9.2.1 Information with regard to physical hazard classes
No additional information available
9.2.2 Other safety characteristics
No additional information available

10 STABILITY AND REACTIVITY

10.1 Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4 Conditions to Avoid
None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials
No additional information available.
10.6 **Hazardous Decomposition Products**

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

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single expo</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 11.2 Information on other hazards

No additional information available.

### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - general</td>
<td>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, short–term (acute)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long–term (chronic)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Not rapidly degradable</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

No additional information available.

#### 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

No additional information available.

#### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available.
13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.1 UN number or ID number
Not regulated for transport

<table>
<thead>
<tr>
<th>UN 2910</th>
<th>UN2910</th>
<th>UN2910</th>
<th>UN2910</th>
<th>UN2910</th>
</tr>
</thead>
</table>

14.2 UN proper shipping name
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL
Radioactive material, excepted package — limited quantity of material
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL
RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL

Transport documentation description

<table>
<thead>
<tr>
<th>UN 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7 (SP290)</th>
<th>UN 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7 (SP290)</th>
<th>UN 2910 Radioactive material, excepted package</th>
<th>UN 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7 (SP290)</th>
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</thead>
</table>

14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No supplementary information available

14.6 Special precautions for user

Overland transport
Special provisions (ADR): 290, 368
Limited quantities (ADR): 0
Excepted quantities (ADR): E0
Packing instructions (ADR): See 1.7
Special packing provisions (ADR): See 4.1.9.1.3
Transport category (ADR): 4
Special provisions for carriage: CV33, (See 1.7.1.5.1)
Loading, unloading and handling (ADR)
Special provisions for carriage - Operation (ADR): S5, S21 Tunnel restriction code (ADR): -

Transport by sea
Special provisions (IMDG): 290, 368
Limited quantities (IMDG): 0
Excepted quantities (IMDG): E0
Packing instructions (IMDG): 4.1.9
Special packing provisions (IMDG): 4.1.9
IBC packing instructions (IMDG): 4.1.9
IBC special provisions (IMDG): 4.1.9
EmS-No. (Fire): F-I
EmS-No. (Spillage): S-S
Stowage category (IMDG): A
Properties and observations (IMDG): See 1.5.1 and 5.1.5.4.2.

Air transport
PCA Limited quantities (IATA): Forbidden
PCA limited quantity max net quantity (IATA): Forbidden
PCA packing instructions (IATA): See 10.3
PCA max net quantity (IATA): See 10.3
CAO packing instructions (IATA): See 10.3
CAO max net quantity (IATA): See 10.3
Special provisions (IATA): A130, A193
ERG code (IATA): 7L

Inland waterway transport
Special provisions (ADN): 290, 368
Limited quantities (ADN): 0
Excepted quantities (ADN): E0
Equipment required (ADN): PP
Number of blue cones/lights (AND): 0

Rail transport
Special provisions (RID): 290, 368
Limited quantities (RID): 0
Excepted quantities (RID): E0
Packing instructions (RID): see 1.7
Special packing provisions (RID): see 4.1.9.1.3
Transport category (RID): 4
Special provisions for carriage: CW33 (see 1.7.1.5.1)
- Loading, unloading and handling (RID)
Colis express (express parcels) (RID): CE15
Hazard identification number (RID): 70

14.7 Maritime transport in bulk according to IMO instruments
Not applicable
15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

Employment restrictions: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK): WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

Joint storage table:

<table>
<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
<th>LGK 2B</th>
<th>LGK 3</th>
<th>LGK 4.1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGK 4.1B</td>
<td>LGK 4.2</td>
<td>LGK 4.3</td>
<td>LGK 5.1A</td>
<td>LGK 5.1B</td>
</tr>
<tr>
<td>LGK 5.1C</td>
<td>LGK 5.2</td>
<td>LGK 6.1A</td>
<td>LGK 6.1B</td>
<td>LGK 6.1C</td>
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<tr>
<td>LGK 6.1D</td>
<td>LGK 6.2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
</tr>
<tr>
<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

Joint storage with restrictions permitted for: LGK 4.1A, LGK 4.3, LGK 5.1C.

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
</tr>
<tr>
<td>ADR</td>
</tr>
<tr>
<td>ATE</td>
</tr>
<tr>
<td>BCF</td>
</tr>
<tr>
<td>BLV</td>
</tr>
<tr>
<td>BOD</td>
</tr>
<tr>
<td>COD</td>
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<tr>
<td>DMEL</td>
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<tr>
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<tr>
<td>SDS</td>
</tr>
<tr>
<td>STP</td>
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</tbody>
</table>
Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

The information given in this Safety Data Sheet is based on our present knowledge on European and regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it does not guarantee all the product properties particularly in the case of non-identified uses. The product must not be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn’t guarantee all the product properties particularly in the case of non-identified uses. The product mustn’t be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

Notification:
English is acceptable for our MSDS as the following conditions are met:
- Medical specialists (users) are well educated in the English language
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Reconstitution buffer
Catalog #: Component the kits mentioned on the first page

1.2 Intended Use

For Research Use Only. 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 Liquid

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

2.2 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

No labelling applicable.

2.3 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Danger symbol No labelling applicable.
Signal word No labelling applicable.
Product Identifier No labelling applicable.
Danger No labelling applicable.
Supplemental Hazard Information -
Prevention statements -
Response statements -
Storage statements -
Disposal statements -

2.4 Other hazards

PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

*See Section 11 Toxicological Information for more detailed health information.*

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances
Not applicable.

#### 3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures
- **Inhalation**: Remove person to fresh air and keep comfortable for breathing.
- **Eye Contact**: Wash skin with plenty of water.
- **Skin Contact**: Rinse eyes with water as a precaution.
- **Ingestion**: Call a poison center or a doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

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

### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

#### 5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

#### 5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6 ACCIDENTAL RELEASE MEASURES

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

##### 6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

##### 6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 **Environmental Precautions**  
Avoid release to the environment.

6.3 **Methods and material for containment and cleaning-up**  
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4 **Reference to other sections**  
For further information refer to section 13.

---

**7 HANDLING AND STORAGE**

7.1 **Precautions for safe handling**  
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 **Conditions for safe storage, including any incompatibilities**  
Storage conditions: Store in a well-ventilated place. Keep cool.

7.3 **Specific end uses**  
No additional information available.

---

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control parameters**  
8.1.1 National occupational exposure and biological limit values  
No additional information available.
8.1.2 Recommended monitoring procedures  
No additional information available.
8.1.3 Air contaminants formed  
No additional information available.
8.1.4 DNEL and PNEC  
No additional information available.
8.1.5 Control banding  
No additional information available.

8.2 **Exposure controls**  
8.2.1 Appropriate engineering controls  
**Appropriate engineering controls:**  
Ensure good ventilation of the work station.
8.2.2 Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1 Eye and face protection
Eye protection: Safety glasses.

8.2.2.2 Skin protection
Skin and body protection: Wear suitable protective clothing.
Hand protection: Protective gloves.

8.2.2.3 Respiratory protection
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards
No additional information available

8.3 Environmental exposure controls
Environmental exposure controls: Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure @50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density @20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other information

9.2.1 Information with regard to physical hazard classes
No additional information available

9.2.2 Other safety characteristics
No additional information available

10 STABILITY AND REACTIVITY

10.1 Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability
Stable under normal conditions.
10.3 **Possibility of hazardous reactions**
No dangerous reactions known under normal conditions of use.

10.4 **Conditions to Avoid**
None under recommended storage and handling conditions (see section 7).

10.5 **Incompatible materials**
No additional information available.

10.6 **Hazardous Decomposition Products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single expo</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

11.2 **Information on other hazards**
No additional information available.

## 12 ECOLOGICAL INFORMATION

12.1 **Ecotoxicity**

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment, short-term (acute)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long-term (chronic)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

12.2 **Persistence and degradability**
No additional information available.

12.3 **Bioaccumulation**
No additional information available.

12.4 **Mobility in soil**
No additional information available.
12.5 **Results of PBT and vPvB assessment**
No additional information available.

12.6 **Endocrine disrupting properties**
No additional information available

12.7 **Other adverse effects**
No additional information available.

### 13 DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods**
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

### 14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number or ID number</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

No supplementary information available

14.1 **Special precautions for user**

**Overland transport**
Not regulated

**Transport by sea**
Not regulated

**Air transport**
Not regulated

**Inland waterway transport**
Not regulated

**Rail transport**
Not regulated

14.2 **Maritime transport in bulk according to IMO instruments**
Not applicable
15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

Employment restrictions:
Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK):
WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510):
LGK 12 - Non-combustible liquids.

Joint storage table:

<table>
<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
<th>LGK 2B</th>
<th>LGK 3</th>
<th>LGK 4.1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGK 4.1B</td>
<td>LGK 4.2</td>
<td>LGK 4.3</td>
<td>LGK 5.1A</td>
<td>LGK 5.1B</td>
</tr>
<tr>
<td>LGK 5.1C</td>
<td>LGK 5.2</td>
<td>LGK 6.1A</td>
<td>LGK 6.1B</td>
<td>LGK 6.1C</td>
</tr>
<tr>
<td>LGK 6.1D</td>
<td>LGK 6.2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
</tr>
<tr>
<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

Joint storage with restrictions permitted for: LGK 4.1A, LGK 4.3, LGK 5.1C.
Joint storage permitted for: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2,
LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A,

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>BLV</td>
<td>Biological limit value</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived-No Effect Level</td>
</tr>
<tr>
<td>EC-No.</td>
<td>European Community number</td>
</tr>
<tr>
<td>EC50</td>
<td>Median effective concentration</td>
</tr>
<tr>
<td>EN</td>
<td>European Standard</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>STP</td>
<td>Sewage treatment plant</td>
</tr>
</tbody>
</table>
**MATERIEL SAFETY DATA SHEET**

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Anti-GAD65 RIA

Catalog #: KIPM2070

<table>
<thead>
<tr>
<th>ThOD</th>
<th>Theoretical oxygen demand (ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLM</td>
<td>Median Tolerance Limit</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>Chemical Abstract Service number</td>
</tr>
<tr>
<td>N.O.S.</td>
<td>Not Otherwise Specified</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>ED</td>
<td>Endocrine disrupting properties</td>
</tr>
</tbody>
</table>

Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

**Disclaimer:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

The information given in this Safety Data Sheet is based on our present knowledge on European and regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it does not guarantee all the product properties particularly in the case of non-identified uses. The product must not be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn’t guarantee all the product properties particularly in the case of non-identified uses. The product mustn’t be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

**Notification:**

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language
MATERIEL SAFETY DATA SHEET
(According to regulation (EC) 1907/2006 and amendments)
Product Name: Anti-GAD65 RIA
Catalog #: KIPM2070

PRECIPITATION BUFFER

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier
Product Name: Precipitation buffer
Catalog #: Component the kits mentioned on the first page

1.2 Intended Use
For Research Use Only. 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 Liquid

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

2.2 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments
No labelling applicable.

2.3 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments
Danger symbol No labelling applicable.
Signal word No labelling applicable.
Product Identifier No labelling applicable.
Danger No labelling applicable.
Supplemental Hazard Information -
Prevention statements -
Response statements -
Storage statements -
Disposal statements -

2.4 Other hazards
PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII

DIAsource ImmunoAssays S.A
2 rue du Bosquet
1348 - Louvain-la-Neuve Belgium
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances
Not applicable.

#### 3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation**
Remove person to fresh air and keep comfortable for breathing.

**Eye Contact**
Wash skin with plenty of water.

**Skin Contact**
Rinse eyes with water as a precaution.

**Ingestion**
Call a poison center or a doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

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

Treat symptomatically.

### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

#### 5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

#### 5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6 ACCIDENTAL RELEASE MEASURES

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

6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 Environmental Precautions
Avoid release to the environment.

6.3 Methods and material for containment and cleaning-up
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections
For further information refer to section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

7.3 Specific end uses
No additional information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 National occupational exposure and biological limit values
No additional information available.
8.1.2 Recommended monitoring procedures
No additional information available.
8.1.3 Air contaminants formed
No additional information available.
8.1.4 DNEL and PNEC
No additional information available.
8.1.5 Control banding
No additional information available.

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station.
8.2.2 Personal protection equipment
Personal protective equipment symbol(s):
8.2.2.1 Eye and face protection

Eye protection: Safety glasses.

8.2.2.2 Skin protection

Skin and body protection: Wear suitable protective clothing.

Hand protection: Protective gloves.

8.2.2.3 Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Decomposition temperature</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
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<tr>
<td>Odor</td>
<td>Not available</td>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
<td>Solubility</td>
<td>Not available</td>
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<tr>
<td>Melting point</td>
<td>Not applicable</td>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
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</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
<td>Vapour pressure @ 50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
<td>Relative vapour density @ 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
<td>Relative vapour density</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
<td>Particle characteristics</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No additional information available

9.2.2 Other safety characteristics

No additional information available

10 STABILITY AND REACTIVITY

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to Avoid

None under recommended storage and handling conditions (see section 7).
10.5 Incompatible materials
No additional information available.

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

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity (oral) Not classified
Acute toxicity (dermal) Not classified
Acute toxicity (inhalation) Not classified
Skin corrosion/irritation Not classified
Serious eye damage/irritation Not classified
Respiratory or skin sensitisation Not classified
Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified
STOT-single expo Not classified
STOT-repeated exposure Not classified
Aspiration hazard Not classified

11.2 Information on other hazards
No additional information available.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity
Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute) Not classified
Hazardous to the aquatic environment, long–term (chronic) Not classified
Not rapidly degradable

12.2 Persistence and degradability
No additional information available.

12.3 Bioaccumulation
No additional information available.

12.4 Mobility in soil
No additional information available.

12.5 Results of PBT and vPvB assessment
No additional information available.

12.6 Endocrine disrupting properties
No additional information available.

12.7 Other adverse effects
No additional information available.
13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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</thead>
<tbody>
<tr>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

14.1 UN number or ID number
Not regulated for transport

14.2 UN proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazards
Not regulated

No supplementary information available

14.1 Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.2 Maritime transport in bulk according to IMO instruments
Not applicable

15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
REACH Annex XIV (Authorisation List)  
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)  
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)  
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)  
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)  
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)  
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

Employment restrictions: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK): WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

Joint storage table:

<table>
<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
<th>LGK 2B</th>
<th>LGK 3</th>
<th>LGK 4 1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGK 4 1B</td>
<td>LGK 4 2</td>
<td>LGK 4 3</td>
<td>LGK 5 1A</td>
<td>LGK 5 1B</td>
</tr>
<tr>
<td>LGK 5 1C</td>
<td>LGK 5 2</td>
<td>LGK 6 1A</td>
<td>LGK 6 1B</td>
<td>LGK 6 1C</td>
</tr>
<tr>
<td>LGK 6 1D</td>
<td>LGK 6 2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
</tr>
<tr>
<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

Joint storage not permitted for: LGK 1, LGK 6 2, LGK 7.
Joint storage with restrictions permitted for: LGK 4 1A, LGK 4 3, LGK 5 1C.

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

### 16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>BLV</td>
<td>Biological limit value</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived-No Effect Level</td>
</tr>
<tr>
<td>EC-No.</td>
<td>European Community number</td>
</tr>
<tr>
<td>EC50</td>
<td>Median effective concentration</td>
</tr>
<tr>
<td>EN</td>
<td>European Standard</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
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<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>STP</td>
<td>Sewage treatment plant</td>
</tr>
<tr>
<td>ThOD</td>
<td>Theoretical oxygen demand (ThOD)</td>
</tr>
<tr>
<td>TLM</td>
<td>Median Tolerance Limit</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>Chemical Abstract Service number</td>
</tr>
<tr>
<td>N.O.S.</td>
<td>Not Otherwise Specified</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>ED</td>
<td>Endocrine disrupting properties</td>
</tr>
</tbody>
</table>
Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

The information given in this Safety Data Sheet is based on our present knowledge on European and regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it does not guarantee all the product properties particularly in the case of non-identified uses. The product must not be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn’t guarantee all the product properties particularly in the case of non-identified uses. The product mustn’t be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

Notification:
English is acceptable for our MSDS as the following conditions are met:
• Medical specialists (users) are well educated in the English language
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Protein A
Catalog #: Component the kits mentioned on the first page

1.2 Intended Use

For Research Use Only. 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: Solid

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

2.2 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

No labelling applicable.

2.3 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

- Danger symbol: No labelling applicable.
- Signal word: No labelling applicable.
- Product Identifier: No labelling applicable.
- Danger: No labelling applicable.
- Supplemental Hazard Information -
- Prevention statements -
- Response statements -
- Storage statements -
- Disposal statements -

2.4 Other hazards

PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

4 FIRST AID MEASURES

4.1 Description of first aid measures
Inhalation: Remove person to fresh air and keep comfortable for breathing.
Eye Contact: Wash skin with plenty of water.
Skin Contact: Rinse eyes with water as a precaution.
Ingestion: Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 **Environmental Precautions**
Avoid release to the environment.

6.3 **Methods and material for containment and cleaning-up**
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4 **Reference to other sections**
For further information refer to section 13.

### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

#### 7.3 Specific end uses
No additional information available.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

8.1.1 National occupational exposure and biological limit values
No additional information available.

8.1.2 Recommended monitoring procedures
No additional information available.

8.1.3 Air contaminants formed
No additional information available.

8.1.4 DNEL and PNEC
No additional information available.

8.1.5 Control banding
No additional information available.

#### 8.2 Exposure controls

8.2.1 Appropriate engineering controls
**Appropriate engineering controls:** Ensure good ventilation of the work station.

8.2.2 Personal protection equipment

**Personal protective equipment symbol(s):**

8.2.2.1 Eye and face protection

**Eye protection:** Safety glasses.
8.2.2.2 Skin protection

**Skin and body protection:** Wear suitable protective clothing.

**Hand protection:** Protective gloves.

8.2.2.3 Respiratory protection

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

**Environmental exposure controls:** Avoid release to the environment.

### 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>Solid</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure @ 50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density @ 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

No additional information available

9.2.2 Other safety characteristics

No additional information available

### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4 Conditions to Avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5 Incompatible materials

No additional information available.
10.6 **Hazardous Decomposition Products**

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

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single expo</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 11.2 Information on other hazards

No additional information available.

### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

**Ecology - general**

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment, short-term (acute)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long-term (chronic)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Not rapidly degradable

#### 12.2 Persistence and degradability

No additional information available.

#### 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

No additional information available.

#### 12.6 Endocrine disrupting properties

No additional information available

#### 12.7 Other adverse effects

No additional information available.
13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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</thead>
<tbody>
<tr>
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<td>Not regulated</td>
<td>Not regulated</td>
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<td>Not regulated</td>
</tr>
</tbody>
</table>

14.1 UN number or ID number
Not regulated for transport

14.2 UN proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazards
No supplementary information available

14.1 Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.2 Maritime transport in bulk according to IMO instruments
Not applicable

15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations
REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
MATERIEL SAFETY DATA SHEET
(According to regulation (EC) 1907/2006 and amendments)
Product Name: Anti-GAD65 RIA
Catalog #: KIPM2070

**REACH Annex XIV (Authorisation List)**
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**
Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Explosives Precursors Regulation (2019/1148)**
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**
Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

**Employment restrictions:**
Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

**Water hazard class (WGK):**
WGK nwg, Non-hazardous to water
(Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510):
LGK 12 - Non-combustible liquids.

**Joint storage table:**

<table>
<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
<th>LGK 2B</th>
<th>LGK 3</th>
<th>LGK 4.1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGK 4.1B</td>
<td>LGK 4.2</td>
<td>LGK 4.3</td>
<td>LGK 5.1A</td>
<td>LGK 5.1B</td>
</tr>
<tr>
<td>LGK 5.1C</td>
<td>LGK 5.2</td>
<td>LGK 6.1A</td>
<td>LGK 6.1B</td>
<td>LGK 6.1C</td>
</tr>
<tr>
<td>LGK 6.1D</td>
<td>LGK 6.2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
</tr>
<tr>
<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

**Joint storage not permitted for:**
LGK 1, LGK 6.2, LGK 7.

**Joint storage with restrictions permitted for:**
LGK 4.1A, LGK 4.3, LGK 5.1C.

**Joint storage permitted for:**

**Hazardous Incident Ordinance (12. BImSchV):** Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
15.2 **Chemical Safety Assessment**

No chemical safety assessment has been carried out.

### 16 OTHER INFORMATION

**Abbreviations and acronyms:**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>BLV</td>
<td>Biological limit value</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived-No Effect Level</td>
</tr>
<tr>
<td>EC-No.</td>
<td>European Community number</td>
</tr>
<tr>
<td>EC50</td>
<td>Median effective concentration</td>
</tr>
<tr>
<td>EN</td>
<td>European Standard</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>STP</td>
<td>Sewage treatment plant</td>
</tr>
<tr>
<td>ThOD</td>
<td>Theoretical oxygen demand (ThOD)</td>
</tr>
<tr>
<td>TLM</td>
<td>Median Tolerance Limit</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>Chemical Abstract Service number</td>
</tr>
<tr>
<td>N.O.S.</td>
<td>Not Otherwise Specified</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
</tbody>
</table>
Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

The information given in this Safety Data Sheet is based on our present knowledge on European and regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it does not guarantee all the product properties particularly in the case of non-identified uses. The product must not be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn’t guarantee all the product properties particularly in the case of non-identified uses. The product mustn’t be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

Notification:
English is acceptable for our MSDS as the following conditions are met:
• Medical specialists (users) are well educated in the English language
1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 **Product identifier**

Product Name: Calibrators
Catalog #: Component the kits mentioned on the first page

1.2 **Intended Use**

For Research Use Only. 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: Liquid

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

2.2 **Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments**

No labelling applicable.

2.3 **Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments**

<table>
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<th>Danger symbol</th>
<th>No labelling applicable.</th>
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<td>No labelling applicable.</td>
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<tr>
<td>Product Identifier</td>
<td>No labelling applicable.</td>
</tr>
<tr>
<td>Danger</td>
<td>No labelling applicable.</td>
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<td>Supplemental Hazard</td>
<td>-</td>
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<tr>
<td>Information</td>
<td>-</td>
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<tr>
<td>Prevention statements</td>
<td>-</td>
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<tr>
<td>Response statements</td>
<td>-</td>
</tr>
<tr>
<td>Storage statements</td>
<td>-</td>
</tr>
<tr>
<td>Disposal statements</td>
<td>-</td>
</tr>
</tbody>
</table>

2.4 **Other hazards**

PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

*See Section 11 Toxicological Information for more detailed health information.*

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances
Not applicable.

#### 3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures
- **Inhalation**: Remove person to fresh air and keep comfortable for breathing.
- **Eye Contact**: Wash skin with plenty of water.
- **Skin Contact**: Rinse eyes with water as a precaution.
- **Ingestion**: Call a poison center or a doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

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

### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

#### 5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

#### 5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6 ACCIDENTAL RELEASE MEASURES

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

##### 6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

##### 6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 **Environmental Precautions**
Avoid release to the environment.

6.3 **Methods and material for containment and cleaning-up**
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4 **Reference to other sections**
For further information refer to section 13.

# 7 HANDLING AND STORAGE

7.1 **Precautions for safe handling**
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 **Conditions for safe storage, including any incompatibilities**
Storage conditions: Store in a well-ventilated place. Keep cool.
7.3 **Specific end uses**
No additional information available.

# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**
8.1.1 National occupational exposure and biological limit values
No additional information available.
8.1.2 Recommended monitoring procedures
No additional information available.
8.1.3 Air contaminants formed
No additional information available.
8.1.4 DNEL and PNEC
No additional information available.
8.1.5 Control banding
No additional information available.

8.2 **Exposure controls**
8.2.1 Appropriate engineering controls
**Appropriate engineering controls:** Ensure good ventilation of the work station.
8.2.2 Personal protection equipment
**Personal protective equipment symbol(s):**

8.2.2.1 Eye and face protection
**Eye protection:** Safety glasses.
8.2.2.2 Skin protection

**Skin and body protection:** Wear suitable protective clothing.

**Hand protection:** Protective gloves.

8.2.2.3 Respiratory protection

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

**Environmental exposure controls:** Avoid release to the environment.

9 **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Decomposition temperature</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
<td>Vapour pressure @50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
<td>Density</td>
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</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
<td>Relative vapour density @20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
<td>Particle characteristics</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No additional information available

9.2.2 Other safety characteristics

No additional information available

10 **STABILITY AND REACTIVITY**

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to Avoid

None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

No additional information available.
10.6 **Hazardous Decomposition Products**

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

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
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</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single expo</td>
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</tr>
<tr>
<td>STOT-repeated exposure</td>
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</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 11.2 Information on other hazards

No additional information available.

### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

**Ecology - general**

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Environment</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment, short–term (acute)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long–term (chronic)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No additional information available.

#### 12.2 Bioaccumulation

No additional information available.

#### 12.3 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

No additional information available.

#### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available.
13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

14.1 UN number or ID number
Not regulated for transport

14.2 UN proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazards
No supplementary information available

14.1 Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.2 Maritime transport in bulk according to IMO instruments
Not applicable

15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations
Employment restrictions:
Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK):
WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510) :
LGK 12 - Non-combustible liquids.

Joint storage table:

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<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
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<th>LGK 4.1A</th>
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</thead>
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<td>LGK 4.2</td>
<td>LGK 4.3</td>
<td>LGK 5.1A</td>
<td>LGK 5.1B</td>
</tr>
<tr>
<td>LGK 5.1C</td>
<td>LGK 5.2</td>
<td>LGK 6.1A</td>
<td>LGK 6.1B</td>
<td>LGK 6.1C</td>
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<td>LGK 6.1D</td>
<td>LGK 6.2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
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<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

Joint storage with restrictions permitted for: LGK 4.1A, LGK 4.3, LGK 5.1C.

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
15.2  **Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## 16  OTHER INFORMATION

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
</tr>
<tr>
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<td>BOD</td>
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<td>PNEC</td>
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<tr>
<td>SDS</td>
</tr>
<tr>
<td>STP</td>
</tr>
<tr>
<td>ThOD</td>
</tr>
<tr>
<td>TLM</td>
</tr>
<tr>
<td>VOC</td>
</tr>
<tr>
<td>CAS-No.</td>
</tr>
<tr>
<td>N.O.S.</td>
</tr>
<tr>
<td>vPvB</td>
</tr>
</tbody>
</table>
**Advice on any training appropriate for workers to ensure protection of human health and the environment**

No data available

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**Notification:**

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language
CONTROLS

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Controls
Catalog #: Component the kits mentioned on the first page

1.2 Intended Use

For Research Use Only. 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 Liquid

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

2.2 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

No labelling applicable.

2.3 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Danger symbol No labelling applicable.
Signal word No labelling applicable.
Product Identifier No labelling applicable.
Danger No labelling applicable.
Supplemental Hazard Information -
Prevention statements -
Response statements -
Storage statements -
Disposal statements -

2.4 Other hazards

PBT & vPvB: Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances
Not applicable.

#### 3.2 Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II.

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

- **Inhalation**: Remove person to fresh air and keep comfortable for breathing.
- **Eye Contact**: Wash skin with plenty of water.
- **Skin Contact**: Rinse eyes with water as a precaution.
- **Ingestion**: Call a poison center or a doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed
No additional information available.

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

### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

#### 5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

#### 5.3 Advice for fire fighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6 ACCIDENTAL RELEASE MEASURES

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

6.1.1 For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2 For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2 Environmental Precautions
Avoid release to the environment.

6.3 Methods and material for containment and cleaning-up
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections
For further information refer to section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

7.3 Specific end uses
No additional information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 National occupational exposure and biological limit values
No additional information available.
8.1.2 Recommended monitoring procedures
No additional information available.
8.1.3 Air contaminants formed
No additional information available.
8.1.4 DNEL and PNEC
No additional information available.
8.1.5 Control banding
No additional information available.

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2 Personal protective equipment
Personal protective equipment symbol(s):
Eye protection: Safety glasses.
8.2.2 Skin protection
Skin and body protection: Wear suitable protective clothing.
Hand protection: Protective gloves.

8.2.2.3 Respiratory protection
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards
No additional information available

8.2.3 Environmental exposure controls
Environmental exposure controls: Avoid release to the environment.

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>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure @ 50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density @ 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density @ 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other information

9.2.1 Information with regard to physical hazard classes
No additional information available

9.2.2 Other safety characteristics
No additional information available

10 STABILITY AND REACTIVITY

10.1 Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4 Conditions to Avoid
None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials
No additional information available.
10.6 **Hazardous Decomposition Products**

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

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single expo</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 11.2 Information on other hazards

No additional information available.

### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

**Ecology - general**

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Hazardous to the aquatic environment, short–term (acute)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not classified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous to the aquatic environment, long–term (chronic)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

No additional information available.

#### 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

No additional information available.

#### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available.
13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

14 TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

14.1 UN number or ID number
Not regulated for transport

14.2 UN proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazards
No supplementary information available

14.1 Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.2 Maritime transport in bulk according to IMO instruments
Not applicable

15 REGULATORY INFORMATION

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

15.1.1 EU-Regulations
REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

Employment restrictions:
Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK):
WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Storage class (LGK, TRGS 510):
LGK 12 - Non-combustible liquids.

Joint storage table:

<table>
<thead>
<tr>
<th>LGK 1</th>
<th>LGK 2A</th>
<th>LGK 2B</th>
<th>LGK 3</th>
<th>LGK 4.1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGK 4.1B</td>
<td>LGK 4.2</td>
<td>LGK 4.3</td>
<td>LGK 5.1A</td>
<td>LGK 5.1B</td>
</tr>
<tr>
<td>LGK 5.1C</td>
<td>LGK 5.2</td>
<td>LGK 6.1A</td>
<td>LGK 6.1B</td>
<td>LGK 6.1C</td>
</tr>
<tr>
<td>LGK 6.1D</td>
<td>LGK 6.2</td>
<td>LGK 7</td>
<td>LGK 8A</td>
<td>LGK 8B</td>
</tr>
<tr>
<td>LGK 10</td>
<td>LGK 11</td>
<td>LGK 12</td>
<td>LGK 13</td>
<td>LGK 10-13</td>
</tr>
</tbody>
</table>

Joint storage not permitted for:
LGK 1, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for:
LGK 4.1A, LGK 4.3, LGK 5.1C.

Joint storage permitted for:
LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2,
LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A,
LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B,
LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.

16 OTHER INFORMATION

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
</tr>
<tr>
<td>ADR</td>
</tr>
<tr>
<td>ATE</td>
</tr>
<tr>
<td>BCF</td>
</tr>
<tr>
<td>BLV</td>
</tr>
<tr>
<td>BOD</td>
</tr>
<tr>
<td>COD</td>
</tr>
<tr>
<td>DMEL</td>
</tr>
<tr>
<td>DNEL</td>
</tr>
<tr>
<td>EC-No.</td>
</tr>
<tr>
<td>EC50</td>
</tr>
<tr>
<td>EN</td>
</tr>
<tr>
<td>IARC</td>
</tr>
<tr>
<td>IATA</td>
</tr>
<tr>
<td>IMDG</td>
</tr>
<tr>
<td>LC50</td>
</tr>
<tr>
<td>LD50</td>
</tr>
<tr>
<td>LOAEL</td>
</tr>
<tr>
<td>NOAEC</td>
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<tr>
<td>NOAEL</td>
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<tr>
<td>NOEC</td>
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<tr>
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<td>PBT</td>
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<tr>
<td>PNEC</td>
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<tr>
<td>RID</td>
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<td>SDS</td>
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<tr>
<td>STP</td>
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<tr>
<td>ThOD</td>
</tr>
<tr>
<td>TLM</td>
</tr>
<tr>
<td>VOC</td>
</tr>
<tr>
<td>CAS-No.</td>
</tr>
<tr>
<td>N.O.S.</td>
</tr>
<tr>
<td>vPvB</td>
</tr>
</tbody>
</table>
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**MSDS established** : 2023-08-01
**Revision number** : 4