Cette section présente les différents flacons présents dans le kit. Les fiches de sécurité de tous ces composants sont disponibles dans la langue choisie à la suite du document.

This section shows all the vials in the kit. The Safety Datasheets are available in the selected language in the next part of the document.

**Nomenclature of the product**

<table>
<thead>
<tr>
<th>Description</th>
<th>Component</th>
<th>Nb of vials</th>
<th>pH</th>
<th>Color</th>
<th>Physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diluent 1 - 20 mL</td>
<td>62DL10DD</td>
<td>1</td>
<td>7</td>
<td>Colorless</td>
<td>Liquid</td>
</tr>
<tr>
<td>Detection buffer 3 - 7 mL</td>
<td></td>
<td>1</td>
<td>7</td>
<td>Colorless</td>
<td>Liquid</td>
</tr>
<tr>
<td>Human Apolipoprotein A1 kit - 500 tests d2 conj</td>
<td></td>
<td>1</td>
<td>7</td>
<td>Blue</td>
<td>Liquid</td>
</tr>
<tr>
<td>Human Apolipoprotein A1 kit - 500 tests Eu conj</td>
<td></td>
<td>1</td>
<td>7</td>
<td>Colorless</td>
<td>Liquid</td>
</tr>
</tbody>
</table>
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Designation / Commercial name: Diluent 1 - 20 mL 62DL1DDD
CAS No.: Index No.: EC No.: REACH No:

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Use of the substance or mixture for Laboratory Research use only;
Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:
Supplier:
Name: CISBIO BIOASSAYS - CBBIOA -
Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France
Phone: +33 4 66 9 67 05 - Fax: +33 4 66 79 67 50
E-Mail (competent person): msds@cisbio.com

1.4 Emergency Telephone Number:
France - Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59
Ce numéro permet d’obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d’appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)
Other countries - Phone: +33 (0) 466 796 737 (2)
http://www.cisbio.com
(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
<th>Category code</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier:
Designation / Commercial name: Diluent 1 - 20 mL 62DL1DDD
Substances contained in this product:
Hazard pictograms

Signal word:

Hazard and precautionary statements:

2.3 Other hazards
The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.
Adverse human health effects and symptoms:

Section 3: Composition/information on ingredients

3.2 Mixtures
Hazardous ingredients:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
<th>Classification according Regulation (EC) No. 1272 [CLP]</th>
<th>Concentration (%)</th>
<th>SCL</th>
<th>M-factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>603-002-00-5</td>
<td>200-578-6</td>
<td>Flammable liquid - Flam. Liq. 2 - H225</td>
<td>&lt;1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information:
Full text of H- and EUH-phrases: see SECTION 16.

Section 4: First aid measures

4.1 Description of first aid measures
General information: Do not leave affected person unattended.
Following inhalation: In case of respiratory tract irritation, consult a physician.
Following skin contact: After contact with skin, wash immediately with water.
Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Following ingestion: Do NOT induce vomiting.
Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed
Symptoms: No known symptoms to date.
Effects:
4.3  **Indication of any immediate medical attention and special treatment needed**

Notes for the doctor:

**Section 5: Firefighting measures**

5.1  **Extinguishing media:**

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

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

Hazardous combustion products /

5.3  **Advice for fire-fighters**

Wear Protective clothing.

**Section 6: Accidental release measures**

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

Emergency procedures: Provide adequate ventilation;

6.2  **Environmental precautions**

Do not allow to enter into surface water or drains;

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

For cleaning up: Suitable material for taking up: Absorbing material, organic;

Other information:

6.4  **Reference to other sections**

Additional information:

**Section 7: Handling and storage**

7.1  **Precautions for safe handling**

Protective measures:

Advice on safe handling: Avoid contact with skin, eyes and clothes;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed;

Hints on storage assembly:

Materials to avoid:
Further information on storage conditions:

7.3 Specific end uses:
Recommendations on specific end uses: Observe technical data sheet.

Section 8: Exposure controls/personal protection

8.1 Control parameters
Preliminary remark:

8.1.1 Occupational exposure limits:

- France

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLE (mg/m³)</th>
<th>VLE (ppm)</th>
<th>VME (mg/m³)</th>
<th>VME (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>9500</td>
<td>5000</td>
<td>1900</td>
<td>1000</td>
</tr>
</tbody>
</table>

- Spain

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLA-EC (mg/m³)</th>
<th>VLA-EC (ppm)</th>
<th>VLA-ED (mg/m³)</th>
<th>VLA-ED (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>1.91</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Germany

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>AGW (mg/m³)</th>
<th>AGW (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>960</td>
<td>500</td>
</tr>
</tbody>
</table>

- Italia

- Greece

- UK
8.1.2 Biological limit values (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>BLV (mg/m³)</th>
<th>BLV (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>200</td>
<td>6-578</td>
</tr>
</tbody>
</table>

8.1.3 Exposure limits at intended use (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>BGW (mg/m³)</th>
<th>BGW (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>950</td>
<td>950</td>
</tr>
</tbody>
</table>

8.1.4 DNEL/PNEC-values:

- DNEL worker

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, systemic effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/m³)</th>
<th>Acute – inhalation, systemic effects (mg/m³)</th>
<th>Long-term – inhalation, local effects (mg/m³)</th>
<th>Long-term – inhalation, systemic effects (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- DNEL consumer

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, systemic effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/m³)</th>
<th>Acute – inhalation, systemic effects (mg/m³)</th>
<th>Long-term – inhalation, local effects (mg/m³)</th>
<th>Long-term – inhalation, systemic effects (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Source: INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>PNEC AQUATIC</th>
<th>PNEC Sediment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>freshwater</td>
<td>marine water</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(mg/L)</td>
<td>(mg/kg)</td>
</tr>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>64-17-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>PNEC soil</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(mg/L)</td>
</tr>
<tr>
<td>64-17-5 / 200-578-6</td>
<td>64-17-5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PNEC remark:
Control parameters remark:

8.2 Exposure controls
8.2.1 Appropriate engineering controls:

8.2.2 Personal protective equipment:
Eye / Face protection: Safety glasses with side-shields;
Skin protection: Gloves;
Respiratory protection: Ensure adequate ventilation;
Thermal hazards:
8.2.3 Environmental exposure controls:

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Value</th>
<th>Concentration (mol/L)</th>
<th>Method</th>
<th>Temperature (°C)</th>
<th>Pressure (kPa)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour threshold (ppm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Concentration (mol/L)</th>
<th>Method</th>
<th>Temperature (°C)</th>
<th>Pressure (kPa)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point/boiling range (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate (kg/m²/h)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (type : I (%))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Upper explosive limit (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lower explosive limit (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2 Other information:
No other relevant data available

Section 10: Stability and reactivity

10.1 Reactivity: This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:
Does not decompose when used for intended uses.

Section 11: Toxicological information
Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- Acute toxicity

Animal data:
Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:
Practical experience / human evidence:
Assessment / Classification:

- **Skin corrosion/irritation**

Animal data:

In-vitro skin test method:
In-vitro skin test result:
Assessment / Classification:

- **Eye damage/irritation**

Animal data:

In vitro eye test method:
In vitro eye test result:
Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity:

Animal data:

Assessment / Classification:

  - Carcinogenicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:

  - Reproductive toxicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:

Overall assessment on CMR properties:

- **Specific target organ toxicity (single exposure)**
  - STOT SE 1 and 2

Animal data:

Other information:
STOT SE 3

Practical experience / human evidence:

Assessment / Classification:

- Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:
Animal data:

Assessment / Classification:

- Aspiration hazard

Practical experience / human evidence:
Experimental data: viscosity data: see SECTION 9.
Assessment / Classification:

Remark:

11.1.1 Mixtures
No toxicological information is available for the mixture itself

Section 12: Ecological information
In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:
Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability
Biodegradation:
Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential
Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.

Section 14: Transport information

ADR/RID/AND/IMDG/IATA

<table>
<thead>
<tr>
<th>UN No.</th>
<th>UN Proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Hazard label(s)</th>
<th>Packing group</th>
</tr>
</thead>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID:
Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:
Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:
Mixed packing provisions:
Portable tanks and bulk containers Instructions:
Portable tanks and bulk containers Special Provisions:
ADR Tank Code: ADR Tank special provisions:
Vehicle for tank carriage:
Special provisions for carriage Packages:
Special provisions for carriage Bulk:
Special provisions for carriage for loading, unloading and handling:
Special Provisions for carriage Operation:
Hazard identification No: Transport category (Tunnel restriction code):
Sea transport (IMDG)
Marine Pollutant: Subsidiary risk(s) for IMDG:
Packing provisions for IMDG: Limited quantities for IMDG:
Packing instructions for IMDG: IBC Instructions:
IBC Provisions: IMO tank instructions:
UN tank instructions: Tanks and bulk Provisions:
EmS : Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)
Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:
Provisions concerning loading and unloading: Provisions concerning carriage:
Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)
Subsidiary risk for IATA: Excepted quantity for IATA:
Passenger and Cargo Aircraft Limited Quantities Packing Instructions:
Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:
Passenger and Cargo Aircraft Packaging Instructions:
Passenger and Cargo Aircraft Maximal Net Quantity:
Cargo Aircraft only Packaging Instructions:
Cargo Aircraft only Maximal Net Quantity:
ERG code: Special Provisions for IATA:

Section 15 : Regulatory information

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

- Authorisations and/or restrictions on use:

Authorisations:
Restrictions on use: 64-17-5 / 200-578-6
SVHC :

- Other EU regulations:

- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations

15.2 Chemical Safety Assessment:
For this mixture, no chemical safety assessment has been carried out
Section 16 : Other information

16.1 Indication of changes
Date of the previous version: 10/02/2019
Modifications:

16.2 Other informations

16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:
See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
</tbody>
</table>
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Designation / Commercial name: Detection buffer 3 - 7 mL
CAS No.: Index No.: EC No.: REACH No.: 

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Use of the substance or mixture for Laboratory Research use only;
Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:
Supplier:
Name: CISBIO BIOASSAYS - CBBIOA -
Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France
Phone: +33 4 66 9 67 05 - Fax: +33 4 66 79 67 50
E-Mail (competent person): msds@cisbio.com

1.4 EMERGENCY TELEPHONE NUMBER:
France - Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59
Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)
Other countries - Phone: +33 (0) 466 796 737 (2)
http://www.cisbio.com
(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
<th>Category code</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Acute Tox. 4 - H332 - Inhalation</td>
<td>Acute Tox. 4</td>
<td>H332</td>
<td>P261, P271, P304 + P340, P312</td>
</tr>
</tbody>
</table>

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier:
Designation / Commercial name: Detection buffer 3 - 7 mL

Substances contained in this product:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium fluoride</td>
<td>7789-23-3</td>
<td>009-005-00-2</td>
<td>232-151-5</td>
</tr>
</tbody>
</table>
2.3 Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Adverse human health effects and symptoms:

### Section 3: Composition/information on ingredients

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
<th>Classification according Regulation (EC) No. 1272 [CLP]</th>
<th>Concentration (%)</th>
<th>SCL</th>
<th>M-factor</th>
</tr>
</thead>
</table>
| potassium fluoride   | 7789-23-3 | 009-005-00-2  | 232-151-5 | Acute toxicity - Acute Tox. 3 - H301 - Oral  
|                      |         |                 |         | Acute toxicity - Acute Tox. 3 - H311 - Dermal  
|                      |         |                 |         | Acute toxicity - Acute Tox. 3 - H331 - Inhalation  | < 10%             |     |          |

Additional information: Full text of H- and EUH-phrases: see SECTION 16.
Section 4: First aid measures

4.1 Description of first aid measures

General information: Do not leave affected person unattended.

Following inhalation: In case of respiratory tract irritation, consult a physician.

Following skin contact: After contact with skin, wash immediately with water.

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion: Do NOT induce vomiting.

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date.

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Section 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products /

5.3 Advice for fire-fighters

Wear Protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up: Suitable material for taking up: Absorbing material, organic.

Other information:

6.4 Reference to other sections

Additional information:
Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:
Advice on safe handling: Avoid contact with skin, eyes and clothes.
Fire precautions:
Do not eat, drink or smoke in areas where reagents are handled.
Advice on general occupational hygiene
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Requirements for storage rooms and vessels: Keep container tightly closed.
Hints on storage assembly:
Materials to avoid:
Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLE (mg/m³)</th>
<th>VLE (ppm)</th>
<th>VME (mg/m³)</th>
<th>VME (ppm)</th>
</tr>
</thead>
</table>

- Spain

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLA-EC (mg/m³)</th>
<th>VLA-EC (ppm)</th>
<th>VLA-ED (mg/m³)</th>
<th>VLA-ED (ppm)</th>
</tr>
</thead>
</table>

- Germany
### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

**Designation / Commercial name:** Detection buffer 3 - 7 mL

**Version:** UK, Page 5 of 12, Revision date: 25/02/2019

<table>
<thead>
<tr>
<th>Source</th>
<th>TRGS 900, June 2015, BAuA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
<td><strong>EC-No.</strong></td>
</tr>
</tbody>
</table>

- Italia
- Greece
- UK
- OSHA (USA)

<table>
<thead>
<tr>
<th>Source</th>
<th>Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) from 29 CFR 1910.1000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
<td><strong>EC-No.</strong></td>
</tr>
</tbody>
</table>

8.1.2 Biological limit values (Germany):

<table>
<thead>
<tr>
<th>Source</th>
<th>List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
<td><strong>EC-No.</strong></td>
</tr>
</tbody>
</table>

8.1.3 Exposure limits at intended use (Germany):

<table>
<thead>
<tr>
<th>Source</th>
<th>TRGS 903, November 2015, BAuA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
<td><strong>EC-No.</strong></td>
</tr>
</tbody>
</table>

8.1.4 DNEL/PNEC-values:

- DNEL worker

<table>
<thead>
<tr>
<th>Source</th>
<th>GESTIS – substance database</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
<td><strong>EC-No.</strong></td>
</tr>
</tbody>
</table>
### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

- **Environmental exposure controls:**
  - **Eye / Face protection:** Safety glasses with side-shields;
  - **Skin protection:** Gloves;
  - **Respiratory protection:** Ensure adequate ventilation;
  - **Thermal hazards:**
  - **Control parameters remark:**

#### 8.2.2 Personal protective equipment:

- **Eye / Face protection:** Safety glasses with side-shields;
- **Skin protection:** Gloves;
- **Respiratory protection:** Ensure adequate ventilation;
- **Thermal hazards:**
- **Control parameters remark:**
Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Concentration</th>
<th>Method</th>
<th>Temperature (°C)</th>
<th>Pressure (kPa)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point/boiling range (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate (kg/m²/h)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (type : (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper explosive limit (%)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Lower explosive limit (%)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure (kPa)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Vapour density (g/cm³)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Densities</td>
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<td></td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Relative density (g/cm³)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Bulk density (g/cm³)</td>
<td></td>
<td></td>
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<tr>
<td>Critical density (g/cm³)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Solubility (Type : ) (g/L)</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Partition coefficient (log Pow)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>n-octanol/water at pH</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition energy : kJ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic (poiseuille)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, cinematic (cm³/s)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Oxidising properties</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information:

No other relevant data available

Section 10: Stability and reactivity

10.1 Reactivity This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.
Section 11 : Toxicological information
Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

**Animal data:**
Acute oral toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Symptoms / delayed effects</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>7789-23-3/232-151-5</td>
<td>245-245</td>
<td>Rat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Acute dermal toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

Acute inhalative toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>C(E)L50 (mg/L)</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

Practical experience / human evidence:
Assessment / Classification:
General Remark:

- **Skin corrosion/irritation**

**Animal data:**

In-vitro skin test method:
In-vitro skin test result:
Assessment / Classification:

- **Eye damage/irritation**

**Animal data:**

In vitro eye test method:
In vitro eye test result:
Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity:
Animal data:
Assessment / Classification:
  - Carcinogenicity

Practical experience / human evidence:
Animal data:
Other information:
Assessment / Classification:
  - Reproductive toxicity

Practical experience / human evidence:
Animal data:
Other information:
Assessment / Classification:

Overall assessment on CMR properties:
- **Specific target organ toxicity (single exposure)**
  - STOT SE 1 and 2

Animal data:
Other information:
  - STOT SE 3

Practical experience / human evidence:
Other information:
Assessment / Classification:
- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:
Animal data:
Assessment / Classification:
Other information
  - Aspiration hazard

Practical experience / human evidence:
Experimental data: viscosity data: see SECTION 9.
Assessment / Classification:
Remark:

11.1.1 **Mixtures**
No toxicological information is available for the mixture itself
Section 12 : Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:
Acute (short-term) fish toxicity
Chronic (long-term) fish toxicity
Acute (short-term) toxicity to crustacea
Chronic (long-term) toxicity to crustacea
Acute (short-term) toxicity to algae and cyanobacteria
Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability
Biodegradation:
Abiotic Degradation:
Assessment / Classification:

12.3 Bioaccumulative potential
Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:
Additional ecotoxicological information:

Section 13 : Disposal considerations

13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.
Section 14 : Transport information

<table>
<thead>
<tr>
<th>ADR/RID/AND/IMDG/IATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td></td>
</tr>
<tr>
<td>UN Proper shipping name</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)
- Classification code ADR: Special Provisions for ADR/RID:
- Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:
- Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:
- Mixed packing provisions:
- Portable tanks and bulk containers Instructions:
- Portable tanks and bulk containers Special Provisions:
- ADR Tank Code: ADR Tank special provisions:
- Vehicle for tank carriage:
- Special provisions for carriage Packages:
- Special provisions for carriage Bulk:
- Special provisions for carriage for loading, unloading and handling:
- Special Provisions for carriage Operation:
- Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)
- Marine Pollutant: Subsidiary risk(s) for IMDG:
- Packing provisions for IMDG: Limited quantities for IMDG:
- Packing instructions for IMDG: IBC Instructions:
- IBC Provisions: IMO tank instructions:
- UN tank instructions: Tanks and bulk Provisions:
- EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)
- Classification Code ADN: Special Provisions ADN:
- Limited quantities ADN: Excepted quantities ADN:
- Carriage permitted: Equipment required:
- Provisions concerning loading and unloading: Provisions concerning carriage:
- Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)
- Subsidiary risk for IATA: Excepted quantity for IATA:
- Passenger and Cargo Aircraft Limited Quantities Packing Instructions:
- Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:
- Passenger and Cargo Aircraft Packaging Instructions:
- Passenger and Cargo Aircraft Maximal Net Quantity:
- Cargo Aircraft only Packaging Instructions: Cargo Aircraft only Maximal Net Quantity:
- ERG code: Special Provisions for IATA:
Section 15: Regulatory information

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:
SVHC:
- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations

15.2 Chemical Safety Assessment:
For this mixture, no chemical safety assessment has been carried out

Section 16: Other information

16.1 Indication of changes
Date of the previous version: 13/02/2019
Modifications:

16.2 Other informations

16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:
See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
</tbody>
</table>
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Designation / Commercial name: Human Apolipoprotein A1 kit - 500 tests d2 conj
CAS No.: Index No.: EC No.: REACH No.: 

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Use of the substance or mixture for Laboratory Research use only;
Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:
Supplier:
Name: CISBIO BIOASSAYS - CBBIOA -
Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France
Phone: +33 4 66 9 67 05 - Fax: +33 4 66 79 67 50
E-Mail (competent person): msds@cisbio.com

1.4 Emergency telephone number:
France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59
Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)
Other countries - Phone: +33 (0) 466 796 737 (2)
http://www.cisbio.com
(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
<th>Category code</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Acute Tox. 4 - H332 - Inhalation</td>
<td>Acute Tox. 4</td>
<td>H332</td>
<td>P261 P271 P304 + P340 P312</td>
</tr>
</tbody>
</table>

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier:
Designation / Commercial name: Human Apolipoprotein A1 kit - 500 tests d2 conj

Substances contained in this product:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium fluoride</td>
<td>7789-23-3</td>
<td>009-005-00-2</td>
<td>232-151-5</td>
</tr>
</tbody>
</table>
Hazard pictograms
GHS07-exclam

Signal word:
Warning

Hazard and precautionary statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>P271</td>
<td>Use only outdoors or in a well-ventilated area.</td>
</tr>
<tr>
<td>P304 + P340</td>
<td>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</td>
</tr>
<tr>
<td>P312</td>
<td>Call a POISON CENTRE/doctor/... if you feel unwell.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHEmicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. 

Adverse human health effects and symptoms:

Section 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
<th>Classification according Regulation (EC) No. 1272 [CLP]</th>
<th>Concentration (%)</th>
<th>SCL</th>
<th>M-factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium fluoride</td>
<td>7789-23-3</td>
<td>009-005-00-2</td>
<td>232-151-5</td>
<td>Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation</td>
<td>&lt; 10%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information:
Full text of H- and EUH-phrases: see SECTION 16.
Section 4: First aid measures

4.1 Description of first aid measures

**General information:** Do not leave affected person unattended.

**Following inhalation:** In case of respiratory tract irritation, consult a physician.

**Following skin contact:** After contact with skin, wash immediately with water.

**Following eye contact:** After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion:** Do NOT induce vomiting.

**Self-protection of the first aider:**

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms:** No known symptoms to date.

**Effects:**

4.3 Indication of any immediate medical attention and special treatment needed

**Notes for the doctor:**

Section 5: Firefighting measures

5.1 Extinguishing media:

**Suitable extinguishing media:** This product is not flammable. Use extinguishing agent suitable for type of surrounding fire.

5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:**

5.3 Advice for fire-fighters

Wear Protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**Emergency procedures:** Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up: Suitable material for taking up: Absorbing material, organic.

**Other information:**

6.4 Reference to other sections

Additional information:
Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:
Advice on safe handling: Avoid contact with skin, eyes and clothes.

Fire precautions:

Do not eat, drink or smoke in areas where reagents are handled.

Advice on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Requirements for storage rooms and vessels: Keep container tightly closed.

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLE (mg/m3)</th>
<th>VLE (ppm)</th>
<th>VME (mg/m3)</th>
<th>VME (ppm)</th>
</tr>
</thead>
</table>

- Spain

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLA-EC (mg/m3)</th>
<th>VLA-EC (ppm)</th>
<th>VLA-ED (mg/m3)</th>
<th>VLA-ED (ppm)</th>
</tr>
</thead>
</table>

- Germany
### 8.1.2 Biological limit values (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)</th>
<th>OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m³)</th>
<th>OSHA Permissible Exposure Limit (PEL) STEL (ppm)</th>
<th>OSHA Permissible Exposure Limit (PEL) STEL (mg/m³)</th>
</tr>
</thead>
</table>

### 8.1.3 Exposure limits at intended use (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>BGW (mg/m³)</th>
<th>BGW (ppm)</th>
</tr>
</thead>
</table>

### 8.1.4 DNEL/PNEC-values:
- DNEL worker

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/m³)</th>
<th>Long-term – inhalation, local effects (mg/m³)</th>
</tr>
</thead>
</table>

**Source:** TRGS 903, November 2015, BAuA
### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

**Designation / Commercial name:** Human Apolipoprotein A1 kit - 500 tests d2 conj

**Version:** UK, Page 6 of 12, Revision date: 25/02/2019

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, systemic effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/m³)</th>
<th>Acute – inhalation, systemic effects (mg/m³)</th>
<th>Long-term – inhalation, local effects (mg/m³)</th>
<th>Long-term – inhalation, systemic effects (mg/m³)</th>
</tr>
</thead>
</table>

- **DNEL consumer**

### Source: GESTIS – substance database

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
</tr>
</thead>
</table>

**DNEL remark:**

- **PNEC**

### Source: INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
</tr>
</thead>
</table>

### Source: INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
</tr>
</thead>
</table>

**PNEC remark:**

**Control parameters remark:**

#### 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:**

**8.2.2 Personal protective equipment:**

- **Eye / Face protection:** Safety glasses with side-shields;
- **Skin protection:** Gloves;
- **Respiratory protection:** Ensure adequate ventilation;
- **Thermal hazards:**

**8.2.3 Environmental exposure controls:**
# Section 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

### Appearance

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Blue</td>
</tr>
</tbody>
</table>

### Odour threshold (ppm)

<table>
<thead>
<tr>
<th>pH</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point (°C)</td>
<td></td>
</tr>
<tr>
<td>Freezing point (°C)</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point/boiling range (°C)</td>
<td></td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate (kg/m²/h)</td>
<td></td>
</tr>
<tr>
<td>Flammability (type :</td>
<td>(%)</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Upper explosive limit (%)</td>
<td></td>
</tr>
<tr>
<td>Lower explosive limit (%)</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure (kPa)</td>
<td></td>
</tr>
<tr>
<td>Vapour density (g/cm³)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Densities</th>
<th>Density (g/cm³)</th>
<th>Relative density (g/cm³)</th>
<th>Bulk density (g/cm³)</th>
<th>Critical density (g/cm³)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solubility (Type :</th>
<th>(g/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient (log Pow)</td>
<td>n-octanol/water at pH :</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Viscosity, dynamic (poiseuille)</td>
</tr>
<tr>
<td>Viscosity, cinematic (cm³/s)</td>
<td></td>
</tr>
</tbody>
</table>

### Decomposition properties

- Does not decompose when used for intended uses.

## 9.2 Other information:

No other relevant data available

# Section 10: Stability and reactivity

## 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

## 10.2 Chemical stability

## 10.3 Possibility of hazardous reactions

## 10.4 Conditions to avoid:

## 10.5 Incompatible materials:

## 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.
**Section 11 : Toxicological information**

Toxicokinetics, metabolism and distribution

### 11.1 Information on toxicological effects

**Substances**

- **Acute toxicity**

**Animal data:**

**Acute oral toxicity:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Symptoms / delayed effects</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>7789-23-3/232-151-5</td>
<td>245-245</td>
<td>Rat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Acute dermal toxicity:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

**Acute inhalative toxicity:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>C(E)LD50 (mg/L)</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

**Practical experience / human evidence:**

**Assessment / Classification:**

**General Remark:**

- **Skin corrosion/irritation**

**Animal data:**

**In-vitro skin test method:**

**In-vitro skin test result:**

**Assessment / Classification:**

- **Eye damage/irritation**

**Animal data:**

**In vitro eye test method:**

**In vitro eye test result:**

**Assessment / Classification:**

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity:
Animal data:

Assessment / Classification:

- Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

- Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)

  - STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself
Section 12: Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:
Acute (short-term) fish toxicity
Chronic (long-term) fish toxicity
Acute (short-term) toxicity to crustacea
Chronic (long-term) toxicity to crustacea
Acute (short-term) toxicity to algae and cyanobacteria
Toxicity to microorganisms and other aquatic plants/organisms

Assessment/Classification:

12.2 Persistence and degradability
Biodegradation:
Abiotic Degradation:
Assessment/Classification:

12.3 Bioaccumulative potential
Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation;
### Section 14 : Transport information

<table>
<thead>
<tr>
<th>ADR/RID/AND/IMDG/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
</tr>
<tr>
<td>UN Proper shipping name</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
</tr>
<tr>
<td>Hazard label(s)</td>
</tr>
<tr>
<td>Packing group</td>
</tr>
</tbody>
</table>

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Land transport (ADR/RID)**
- Classification code ADR:
- Special Provisions for ADR/RID:
- Limited quantities for ADR/RID:
- Excepted Quantities for ADR/RID:
- Packing Instructions for ADR/RID:
- Special packing provisions for ADR/RID:
- Mixed packing provisions:
- Portable tanks and bulk containers Instructions:
- Portable tanks and bulk containers Special Provisions:
- ADR Tank Code:
- ADR Tank special provisions:
- Vehicle for tank carriage:
- Special provisions for carriage Packages:
- Special provisions for carriage Bulk:
- Special provisions for carriage for loading, unloading and handling:
- Special Provisions for carriage Operation:
- Hazard identification No:
- Transport category (Tunnel restriction code):

**Sea transport (IMDG)**
- Marine Pollutant:
- Subsidiary risk(s) for IMDG:
- Packing provisions for IMDG:
- Limited quantities for IMDG:
- Packing instructions for IMDG:
- IBC Instructions:
- IBC Provisions:
- IMO tank instructions:
- UN tank instructions:
- Tanks and bulk Provisions:
- EmS:
- Stowage and segregation for IMDG:

**Inland waterway transport (ADN)**
- Classification Code ADN:
- Special Provisions ADN:
- Limited quantities ADN:
- Excepted quantities ADN:
- Carriage permitted:
- Equipment required:
- Provisions concerning loading and unloading:
- Provisions concerning carriage:
- Number of blue cones/lights:
- Remark:

**Air transport (ICAO-TI / IATA-DGR)**
- Subsidiary risk for IATA:
- Excepted quantity for IATA:
- Passenger and Cargo Aircraft Limited Quantities Packing Instructions:
- Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:
- Passenger and Cargo Aircraft Packaging Instructions:
- Passenger and Cargo Aircraft Maximal Net Quantity:
- Cargo Aircraft only Packaging Instructions:
- Cargo Aircraft only Maximal Net Quantity:
- ERG code:
- Special Provisions for IATA:
**Section 15 : Regulatory information**

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

**EU regulations**
- Authorisations and/or restrictions on use:

  **Authorisations:**
  **SVHC:**
  - Other EU regulations:
  - Directive 2010/75/EC on industrial emissions

**Not relevant**

**National regulations**

15.2 **Chemical Safety Assessment:**
For this mixture, no chemical safety assessment has been carried out

**Section 16 : Other information**

16.1 **Indication of changes**
Date of the previous version: 12/02/2019
Modifications:

16.2 **Other informations**

16.3 **Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**
See SECTION 2.1 (classification).

16.4 **Relevant R-, H- and EUH--phrases (number and full text):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
</tbody>
</table>
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Designation / Commercial name: Human Apolipoprotein A1 kit - 500 tests Eu conj

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Use of the substance or mixture for Laboratory Research use only;
Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:
Supplier:
Name: CISBIO BIOASSAYS - CBBIOA -
Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France
Phone: +33 4 66 9 67 05 - Fax: +33 4 66 79 67 50
E-Mail (competent person): msds@cisbio.com

1.4 Emergency telephone number:
France - Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59
Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)
Other countries - Phone: +33 (0) 466 796 737 (2)
http://www.cisbio.com
(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
<th>Category code</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Acute Tox. 4 - H332 - Inhalation</td>
<td>Acute Tox. 4</td>
<td>H332</td>
<td>P261, P271, P304 + P340, P312</td>
</tr>
</tbody>
</table>

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier:
Designation / Commercial name: Human Apolipoprotein A1 kit - 500 tests Eu conj

Substances contained in this product:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium fluoride</td>
<td>7789-23-3</td>
<td>009-005-00-2</td>
<td>232-151-5</td>
</tr>
</tbody>
</table>
Hazard pictograms
GHS07-exclam

Signal word:
Warning

Hazard and precautionary statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>P271</td>
<td>Use only outdoors or in a well-ventilated area.</td>
</tr>
<tr>
<td>P304 + P340</td>
<td>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</td>
</tr>
<tr>
<td>P312</td>
<td>Call a POISON CENTRE/doctor/... if you feel unwell.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHEmicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Adverse human health effects and symptoms:

Section 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS n°</th>
<th>Index n°</th>
<th>EC n°</th>
<th>Classification according Regulation (EC) No. 1272 [CLP]</th>
<th>Concentration (%)</th>
<th>SCL</th>
<th>M-factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium fluoride</td>
<td>7789-23-3</td>
<td>009-005-00-2</td>
<td>232-151-5</td>
<td>Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation</td>
<td>&lt; 10%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.
Section 4: First aid measures

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;
Following inhalation: In case of respiratory tract irritation, consult a physician. ;
Following skin contact: After contact with skin, wash immediately with water ;
Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. ;
Following ingestion: Do NOT induce vomiting. ;
Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;
Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Section 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products /

5.3 Advice for fire-fighters

Wear Protective clothing. ;

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ;

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ;

6.3 Methods and material for containment and cleaning up

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

6.4 Reference to other sections

Additional information:
Section 7: Handling and storage

7.1 Precautions for safe handling
Protective measures:
Advice on safe handling: Avoid contact with skin, eyes and clothes.
Fire precautions:
Do not eat, drink or smoke in areas where reagents are handled.
Advice on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Requirements for storage rooms and vessels: Keep container tightly closed.
Hints on storage assembly:
Materials to avoid:
Further information on storage conditions:

7.3 Specific end uses:
Recommendations on specific end uses: Observe technical data sheet.

Section 8: Exposure controls/personal protection

8.1 Control parameters
Preliminary remark:

8.1.1 Occupational exposure limits:

- France

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLE (mg/m3)</th>
<th>VLE (ppm)</th>
<th>VME (mg/m3)</th>
<th>VME (ppm)</th>
</tr>
</thead>
</table>

- Spain

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>VLA-EC (mg/m3)</th>
<th>VLA-EC (ppm)</th>
<th>VLA-ED (mg/m3)</th>
<th>VLA-ED (ppm)</th>
</tr>
</thead>
</table>

- Germany
Safety Data Sheet
according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : Human Apolipoprotein A1 kit - 500 tests Eu conj
Version: UK, Page 5 of 12, Revision date: 25/02/2019

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>AGW (mg/m³)</th>
<th>AGW (ppm)</th>
</tr>
</thead>
</table>

- Italia

- Greece

- UK

- OSHA (USA)

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)</th>
<th>OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m³)</th>
<th>OSHA Permissible Exposure Limit (PEL) STEL (ppm)</th>
<th>OSHA Permissible Exposure Limit (PEL) STEL (mg/m³)</th>
</tr>
</thead>
</table>

8.1.2 Biological limit values (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>BLV (mg/m³)</th>
<th>BLV (ppm)</th>
</tr>
</thead>
</table>

8.1.3 Exposure limits at intended use (Germany):

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>BGW (mg/m³)</th>
<th>BGW (ppm)</th>
</tr>
</thead>
</table>

8.1.4 DNEL/PNEC-values:
- DNEL worker

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/kg/m³)</th>
<th>Long-term – inhalation, local effects (mg/kg/m³)</th>
<th>Acute – dermal, systemic effects (mg/kg/day)</th>
<th>Long-term – dermal, systemic effects (mg/kg/day)</th>
<th>Acute – inhalation, systemic effects (mg/kg/m³)</th>
<th>Long-term – inhalation, systemic effects (mg/kg/m³)</th>
</tr>
</thead>
</table>
### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

**Designation / Commercial name:** Human Apolipoprotein A1 kit - 500 tests Eu conj

**Version:** UK, Page 6 of 12, Revision date: 25/02/2019

### DNEL consumer

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Acute – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, local effects (mg/kg/day)</th>
<th>Long-term – dermal, systemic effects (mg/kg/day)</th>
<th>Acute – inhalation, local effects (mg/m3)</th>
<th>Acute – inhalation, systemic effects (mg/m3)</th>
<th>Long-term – inhalation, local effects (mg/m3)</th>
<th>Long-term – inhalation, systemic effects (mg/m3)</th>
</tr>
</thead>
</table>

### DNEL remark:

- **PNEC**

### INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>PNEC AQUATIC</th>
<th>PNEC Sediment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>freshwater</td>
<td>marine water</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(mg/L)</td>
<td>(mg/kg)</td>
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<td>(mg/L)</td>
<td>(ppm)</td>
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<td>(mg/L)</td>
<td>(mg/kg)</td>
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<td>(mg/L)</td>
<td>(ppm)</td>
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<td>(mg/L)</td>
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<td></td>
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<td></td>
<td>(mg/L)</td>
<td>(ppm)</td>
</tr>
</tbody>
</table>

### INERIS

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>PNEC soil</th>
<th>PNEC sewage treatment plant</th>
<th>PNEC air</th>
<th>PNEC secondary poisoning</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(mg/L)</td>
<td>(mg/kg)</td>
<td>(mg/L)</td>
<td>(mg/kg)</td>
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<td>(mg/L)</td>
<td>(ppm)</td>
<td>(mg/L)</td>
<td>(mg/kg)</td>
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<tr>
<td></td>
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<td>(mg/L)</td>
<td>(mg/kg)</td>
<td>(mg/L)</td>
<td>(ppm)</td>
</tr>
</tbody>
</table>

### PNEC remark:

Control parameters remark:

#### 8.2 Exposure controls

8.2.1 **Appropriate engineering controls:**

8.2.2 **Personal protective equipment:**

- **Eye / Face protection:** Safety glasses with side-shields;
- **Skin protection:** Gloves;
- **Respiratory protection:** Ensure adequate ventilation;
- **Thermal hazards:**

8.2.3 **Environmental exposure controls:**
Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Value</th>
<th>Concentration mol/L</th>
<th>Method</th>
<th>Temperature °C</th>
<th>Pressure (kPa)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid;</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless;</td>
<td></td>
<td></td>
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<tr>
<td>Odour</td>
<td></td>
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<tr>
<td>Odour threshold (ppm)</td>
<td></td>
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<td></td>
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<tr>
<td>pH</td>
<td>7</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Freezing point (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Initial boiling point/boiling range (°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Flash point (°C)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Evaporation rate (kg/m²/h)</td>
<td></td>
<td></td>
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<tr>
<td>Flammability (type : I (%))</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
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<tr>
<td>Upper explosive limit (%)</td>
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<tr>
<td>Lower explosive limit (%)</td>
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<tr>
<td>Vapour pressure (kPa)</td>
<td></td>
<td></td>
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<tr>
<td>Vapour density (g/cm³)</td>
<td></td>
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<tr>
<td>Densities</td>
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<tr>
<td>Density (g/cm³)</td>
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<tr>
<td>Relative density (g/cm³)</td>
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<tr>
<td>Bulk density (g/cm³)</td>
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<tr>
<td>Critical density (g/cm³)</td>
<td></td>
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<tr>
<td>Solubility (Type : I) (g/L)</td>
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<tr>
<td>Partition coefficient (log Pow)</td>
<td></td>
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<tr>
<td>n-octanol/water at pH :</td>
<td></td>
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<tr>
<td>Auto-ignition temperature (°C)</td>
<td></td>
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<tr>
<td>Decomposition temperature (°C)</td>
<td></td>
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<tr>
<td>Decomposition energy : kJ</td>
<td></td>
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<tr>
<td>Viscosity</td>
<td></td>
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<tr>
<td>Viscosity, dynamic (poiseuille)</td>
<td></td>
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<tr>
<td>Viscosity, cinematic (cm³/s)</td>
<td></td>
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<tr>
<td>Oxidising properties</td>
<td></td>
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</tr>
<tr>
<td>Explosive properties</td>
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</tr>
</tbody>
</table>

9.2 Other information:
No other relevant data available

Section 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:
Does not decompose when used for intended uses.
Section 11 : Toxicological information
Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- Acute toxicity

Animal data:
Acute oral toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Symptoms / delayed effects</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>7789-23-3/232-151-5</td>
<td>243-245</td>
<td>Rat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Acute dermal toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>LD50 (mg/kg)</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

Acute inhalative toxicity:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>C(E)L50 (mg/L)</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
</table>

Practical experience / human evidence:
Assessment / Classification:
General Remark:

- Skin corrosion/irritation

Animal data:

In-vitro skin test method:
In-vitro skin test result:
Assessment / Classification:

- Eye damage/irritation

Animal data:

In vitro eye test method:
In vitro eye test result:
Assessment / Classification:

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity:
Animal data:
Assessment / Classification:
  - Carcinogenicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:
  - Reproductive toxicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:

Overall assessment on CMR properties:
- **Specific target organ toxicity (single exposure)**
  - STOT SE 1 and 2

Animal data:

Other information:
  - STOT SE 3

Practical experience / human evidence:

Other information:
Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:
Animal data:

Assessment / Classification:
Other information
  
- **Aspiration hazard**

Practical experience / human evidence:
Experimental data: viscosity data: see SECTION 9.
Assessment / Classification:
Remark:

11.1.1 **Mixtures**

No toxicological information is available for the mixture itself
Section 12 : Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

Section 13 : Disposal considerations

13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.
### Section 14: Transport Information

<table>
<thead>
<tr>
<th>ADR/RID/AND/IMDG/IATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td></td>
</tr>
<tr>
<td>UN Proper shipping name</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
</tbody>
</table>

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Land transport (ADR/RID):**
- Classification code ADR: [Special Provisions for ADR/RID]
- Limited quantities for ADR/RID: [Excepted Quantities for ADR/RID]
- Packing Instructions for ADR/RID: [Special packing provisions for ADR/RID]
- Mixed packing provisions:
- Portable tanks and bulk containers Instructions:
- Portable tanks and bulk containers Special Provisions:
- ADR Tank Code: [ADR Tank special provisions]
- Vehicle for tank carriage:
- Special provisions for carriage Packages:
- Special provisions for carriage Bulk:
- Special provisions for carriage for loading, unloading and handling:
- Special Provisions for carriage Operation:
- Hazard identification No.: [Transport category (Tunnel restriction code)]

**Sea transport (IMDG):**
- Marine Pollutant: [Subsidiary risk(s) for IMDG]
- Packing provisions for IMDG: [Limited quantities for IMDG]
- Packing instructions for IMDG: [IBC Instructions]
- IBC Provisions: [IMO tank instructions]
- UN tank instructions: [Tanks and bulk Provisions]
- EmS: [Stowage and segregation for IMDG]

**Inland waterway transport (ADN):**
- Classification Code ADN: [Special Provisions ADN]
- Limited quantities ADN: [Excepted quantities ADN]
- Carriage permitted: [Equipment required]
- Provisions concerning loading and unloading: [Provisions concerning carriage]
- Number of blue cones/lights: [Remark]

**Air transport (ICAO-TI / IATA-DGR):**
- Subsidiary risk for IATA: [Excluded quantity for IATA]
- Passenger and Cargo Aircraft Limited Quantities Packing Instructions:
- Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:
- Passenger and Cargo Aircraft Packaging Instructions:
- Passenger and Cargo Aircraft Maximal Net Quantity:
- Cargo Aircraft only Packaging Instructions:
- Cargo Aircraft only Maximal Net Quantity:
- ERG code: [Special Provisions for IATA]
Section 15 : Regulatory information

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:
SVHC:
- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations

15.2 Chemical Safety Assessment:
For this mixture, no chemical safety assessment has been carried out

Section 16 : Other information

16.1 Indication of changes
Date of the previous version: 12/02/2019
Modifications:

16.2 Other informations

16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:
See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):

<table>
<thead>
<tr>
<th>Code</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
</tbody>
</table>