Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Designation / Commercial name: Diluent 2 - 20 mL 62DL2DDD
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 2 - 20 mL 62DL2DDD
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:**


**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. Remove affected person from the danger area and lay down.

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

**Following skin contact:** After contact with skin, wash immediately with water; Remove contaminated clothing.

**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. Give nothing to eat or drink. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

**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.; Emergency procedures: Remove persons to safety.; Personal precautions: Use personal protection equipment (see section 8);

6.2 Environmental precautions
Do not allow to enter into surface water or drains.; Ensure all waste water is collected and treated via a waste water treatment plant.;

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.; Avoid: Eye contact; Avoid: Generation/formation of aerosols; Avoid: Skin contact; Avoid: inhalation; In the immediate working surroundings there must be: Emergency shower installed; In the immediate working surroundings there must be: Provide eye shower and label its location conspicuously; Wash contaminated clothing immediately.;
Fire precautions:
Do not eat, drink or smoke in areas where reagents are handled.; Do not pipet by mouth; Wear suitable one-way gloves at work;
Advice on general occupational hygiene
Handle in accordance with good industrial hygiene and safety practice; Observe technical data sheet; Remove contaminated, saturated clothing.; Wash hands before breaks and after work;
7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Requirements for storage rooms and vessels: Keep container tightly closed.; Keep-store only in original container or in properly labeled containers;
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
- Spain
- Germany
- Italia
- Greece
- UK
- OSHA (USA)

8.1.2 Biological limit values (Germany):

8.1.3 Exposure limits at intended use (Germany):
8.1.4 DNEL/PNEC-values:
- DNEL worker
- DNEL consumer

DNEL remark:
- PNEC

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; Laboratory coats;
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>
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<tr>
<td>Colour</td>
<td></td>
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<tr>
<td>Odour</td>
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<tr>
<td>Odour threshold (ppm)</td>
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<tr>
<td>pH</td>
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<tr>
<td>Melting point (°C)</td>
<td></td>
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<tr>
<td>Freezing point (°C)</td>
<td></td>
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<tr>
<td>Initial boiling point/boiling range (°C)</td>
<td></td>
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<tr>
<td>Flash point (°C)</td>
<td></td>
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<tr>
<td>Evaporation rate (kg/m²/h)</td>
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<tr>
<td>Flammability (type : ) (%)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Upper/lower Flammability or explosive limits</td>
<td>Upper explosive limit (%)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Lower explosive limit (%)</td>
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<td></td>
<td></td>
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<tr>
<td>Vapour pressure (kPa)</td>
<td></td>
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<tr>
<td>Vapour density (g/cm³)</td>
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<td></td>
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<tr>
<td>Densities</td>
<td>Density (g/cm³)</td>
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<td></td>
<td>Relative density (g/cm³)</td>
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<tr>
<td></td>
<td>Bulk density (g/cm³)</td>
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<tr>
<td></td>
<td>Critical density (g/cm³)</td>
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<td></td>
</tr>
</tbody>
</table>
Solubility (Type : | (g/L)

Partition coefficient (log Pow)
$n$-octanol/water at pH :

Auto-ignition temperature (°C)
Decomposition temperature (°C)
Decomposition energy : kJ

Viscosity
Viscosity, dynamic (poiseuille)
Viscosity, cinematic (cm³/s)

Oxidising properties
Explosive properties

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. Thermal decomposition can lead to the escape of irritating gases and vapors.

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:
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)**
  
  o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

  o Carcinogenicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:

  o Reproductive toxicity

Practical experience / human evidence:
Animal data:

Other information:
Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

  o 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>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:
### 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:
  - 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: 28/09/2018
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):