**SECTION 1 Identification of the substance/mixture and of the company/undertaking**

### 1.1. Product identifier

- **Product form:** Mixture
- **Product name:** Myoglobin Assay, Reagent R1, Reagent R2, Calibrators and Controls
- **Product code:** DZ147A, DZ147A-R1, DZ147A-R2, DZ147A-CAL, DZ147A-CON
- **Product group:** Blend

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

**Supplier:** Diazyme Laboratories
12889 Gregg Court
92064 Poway
T 858-455-4768

**Authorized Representative:** MDSS GmbH
Schiffgraben 41
Germany
(+49) 511-6262-8630

### 1.4. Emergency telephone number

**Emergency number**
Contact your local health authority or poison control center in an emergency. Manufacturer contact number for the US is as follows: (858) 455-4768

**SECTION 2 Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified (for all components)

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable (for all components)

### 2.3. Other hazards

Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII

**SECTION 3 Composition/information on ingredients**

### 3.1. Substance

Not applicable

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trizma Base</td>
<td>(CAS No) 77-86-1</td>
<td>1.2</td>
<td>Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td>(EC no) 201-064-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Triton X-100
substance listed as REACH Candidate (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues])
non-classified PBT substance
non-classified vPvB substance

(CAS No) 9002-93-1

0.1

Acute Tox. 4 (Oral), H302
Eye Dam. 1, H318

Full text of H-phrases: see section 16

SECTION 4 First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact Wash skin with plenty of water.
First-aid measures after eye contact Rinse eyes with water as a precaution.
First-aid measures after ingestion Call a poison center or a doctor if you feel unwell.

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

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

SECTION 5 Firefighting measures

5.1. Extinguishing media

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

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

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures Ventilate spillage area.

6.1.2. For emergency responders
Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Avoid release to the environment.

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

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

SECTION 7 Handling and storage

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

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

7.3. Specific end use(s)
No additional information available

SECTION 8 Exposure controls/personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls

Appropriate engineering controls
Ensure good ventilation of the work station.

Hand protection
Protective gloves

Eye protection
Safety glasses

Skin and body protection
Wear suitable protective clothing

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

Environmental exposure controls
Avoid release to the environment.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10 Stability and reactivity

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

10.2. Chemical stability
Stable under normal conditions.

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

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

10.5. Incompatible materials
No additional information available

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

SECTION 11 Toxicological information

11.1. Information on toxicological effects
Acute toxicity
Not classified
**Myoglobin Assay**

**Reagents, Calibrators and Controls**

**Safety Data Sheet 1201**

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th><strong>Triton X-100 (9002-93-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Trizma Base (77-86-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- Not classified
**Serious eye damage/irritation**
- Not classified
**Respiratory or skin sensitisation**
- Not classified
**Germ cell mutagenicity**
- Not classified
**Carcinogenicity**
- Not classified
**Reproductive toxicity**
- Not classified
**Specific target organ toxicity (single exposure)**
- Not classified
**Specific target organ toxicity (repeated exposure)**
- Not classified
**Aspiration hazard**
- Not classified

**SECTION 12 Ecological information**

### 12.1. Toxicity

**Ecology - general**
The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th><strong>Triton X-100 (9002-93-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 fish 2</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th><strong>Triton X-100 (9002-93-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
<tr>
<td>ThOD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Trizma Base (77-86-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th><strong>Triton X-100 (9002-93-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Trizma Base (77-86-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th><strong>Component</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Triton X-100 (9002-93-1)</td>
<td>This substance/mixture meets the PBT criteria of REACH regulation, annex XIII</td>
</tr>
<tr>
<td></td>
<td>This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
</tbody>
</table>

### 12.6. Other adverse effects

No additional information available

**SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

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

**SECTION 14 Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)  | Not applicable
Myoglobin Assay
Reagents, Calibrators and Controls
Safety Data Sheet 1201

according to Regulation (EC) No. 453/2010

| Proper Shipping Name (IMDG) | Not applicable |
| Proper Shipping Name (IATA) | Not applicable |
| Proper Shipping Name (ADN)  | Not applicable |
| Proper Shipping Name (RID)  | Not applicable |

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) | Not applicable |

IMDG
Transport hazard class(es) (IMDG) | Not applicable |

IATA
Transport hazard class(es) (IATA) | Not applicable |

ADN
Transport hazard class(es) (ADN)  | Not applicable |

RID
Transport hazard class(es) (RID)  | Not applicable |

14.4. Packing group

Packing group (ADR) | Not applicable |
Packing group (IMDG) | Not applicable |
Packing group (IATA) | Not applicable |
Packing group (ADN)  | Not applicable |
Packing group (RID)  | Not applicable |

14.5. Environmental hazards

Dangerous for the environment | No |
Marine pollutant | No |
Other information | No supplementary information available |

14.6. Special precautions for user

- Overland transport
  No data available

- Transport by sea
  No data available

- Air transport
  No data available

- Inland waterway transport
  Carriage prohibited (ADN) | No |
  Not subject to ADN | No |

- Rail transport
  Carriage prohibited (RID) | No |

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

Not applicable

SECTION 15 Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] (CAS 9002-93-1)

Contains no REACH Annex XIV substances
15.1.2. National regulations

Germany
VwVwS Annex reference  
12th Ordinance Implementing the Federal Immission Control Act - 12.BlmSchV  
Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)  
Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen  
SZW-lijst van mutagene stoffen  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling  
None of the components are listed

Denmark
Recommendations Danish Regulation  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment
No additional information available

SECTION 16 Other information

Full text of H- and EUH-statements

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS EU Diazyme with CLP

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.