Myoglobin Assay
Reagents, Calibrators and Controls

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-CAL, DZ147A-CON

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

1.3. Details of the supplier of the safety data sheet
Supplier: Diazyme Laboratories
12889 Gregg Court
Poway, CA 92064
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
GHS-US classification: Not classified

2.2. Label elements
GHS-US labeling: No labeling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
Not applicable

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>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trizma Base</td>
<td>(CAS No) 77-86-1</td>
<td>1.2</td>
<td>Skin Irrit. 2, H315, STOT SE 3, H335</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Myoglobin Assay Reagents, Calibrators and Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
<tr>
<td>Not applicable</td>
</tr>
</tbody>
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<table>
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<th>Trizma Base (77-86-1)</th>
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<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
<tr>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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>Color</td>
<td>Mixture contains one or more component(s) which have the following colour(s): Colourless to light yellow White to light yellow Colourless to white Colourless or white Off-white to light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Mild odour Amine-like odour Odourless Characteristic odour</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</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>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
</tbody>
</table>
| Solubility                                    | Water Solubility in water of component(s) of the mixture:
• : Complete  • : > 55 g/100ml  • : > 10 g/100ml  • : 139 g/100ml  • polyvinylpyrrolidone: > 30 g/100ml |
| Log Pow                                       | No data available                               |
| Log Kow                                       | No data available                               |
| Auto-ignition temperature                     | No data available                               |
| Decomposition temperature                     | No data available                               |
| Viscosity                                     | No data available                               |
| Viscosity, kinematic                          | No data available                               |
| Viscosity, dynamic                            | No data available                               |

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

**Trizma Base (77-86-1)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5900 mg/kg (Rat)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>5900.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Not classified

Serious eye damage/irritation
Not classified

Respiratory or skin sensitization
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.

12.2. Persistence and degradability

**Trizma Base (77-86-1)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability in water: no data available.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

**Trizma Base (77-86-1)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-1.56</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation: not applicable.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming
No known ecological damage caused by this product.

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

Department of Transportation (DOT)
In accordance with DOT
Not regulated for transport

Additional information
Other information
No supplementary information available.
Myoglobin Assay
Reagents, Calibrators and Controls
Safety Data Sheet 1078
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ADR
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15 Regulatory information

15.1. US Federal regulations
Trizma Base (77-86-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
No additional information available

National regulations
No additional information available

15.3. US State regulations
No additional information available

SECTION 16 Other information

Full text of H-phrases

<table>
<thead>
<tr>
<th>Skin Irrit. 2</th>
<th>Skin corrosion/irritation Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS US Diazyme

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.