# SAFETY DATA SHEET

**DNA Ladder, 100 bp**

## Section 1. Identification

<table>
<thead>
<tr>
<th>GHS product identifier</th>
<th>DNA Ladder, 100 bp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>76712</td>
</tr>
<tr>
<td>Other means of</td>
<td>Not available.</td>
</tr>
<tr>
<td>identification</td>
<td></td>
</tr>
<tr>
<td>Supplier/Manufacturer</td>
<td>3420 Central Expressway, Santa Clara CA 95051</td>
</tr>
<tr>
<td>In case of emergency</td>
<td>Chemtrec: 1 800 424 9300</td>
</tr>
<tr>
<td></td>
<td>Outside USA &amp; Canada: +1 703 527 3887</td>
</tr>
</tbody>
</table>

## Section 2. Hazards identification

### OSHA/HCS status

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not classified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not classified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

### GHS label elements

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>No signal word.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>No signal word.</td>
</tr>
</tbody>
</table>

### Hazard statements

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Precautionary statements

#### General

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Prevention

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Response

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Storage

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Disposal

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Supplemental label elements

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>None known.</td>
</tr>
</tbody>
</table>

#### Hazards not otherwise classified

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X DNA Loading Buffer (OXG)</td>
<td>None known.</td>
</tr>
</tbody>
</table>
Section 3. Composition/information on ingredients

**Substance/mixture**: Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

**Description of necessary first aid measures**

- **Eye contact**: DNA Ladder, 100 bp
  
  Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

  6X DNA Loading Buffer (OXG)
  
  Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

- **Inhalation**: DNA Ladder, 100 bp
  
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

  6X DNA Loading Buffer (OXG)
  
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

- **Skin contact**: DNA Ladder, 100 bp
  
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

  6X DNA Loading Buffer (OXG)
  
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- **Ingestion**: DNA Ladder, 100 bp
  
  Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

  6X DNA Loading Buffer (OXG)
  
  Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

- **Eye contact**: DNA Ladder, 100 bp
  
  No known significant effects or critical hazards.

  6X DNA Loading Buffer (OXG)
  
  No known significant effects or critical hazards.

- **Inhalation**: DNA Ladder, 100 bp
  
  No known significant effects or critical hazards.

  6X DNA Loading Buffer (OXG)
  
  No known significant effects or critical hazards.

- **Skin contact**: DNA Ladder, 100 bp
  
  No known significant effects or critical hazards.

  6X DNA Loading Buffer (OXG)
  
  No known significant effects or critical hazards.

- **Ingestion**: DNA Ladder, 100 bp
  
  No known significant effects or critical hazards.

  6X DNA Loading Buffer (OXG)
  
  No known significant effects or critical hazards.

**Over-exposure signs/symptoms**
Section 4. First aid measures

**Eye contact**: DNA Ladder, 100 bp

**Inhalation**: DNA Ladder, 100 bp

**Skin contact**: DNA Ladder, 100 bp

**Ingestion**: DNA Ladder, 100 bp

Protection of first-aiders:
No action shall be taken involving any personal risk or without suitable training.

Notes to physician:
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
No specific treatment.

Indication of immediate medical attention and special treatment needed, if necessary

See toxicological information (Section 11)

Section 5. Fire-fighting measures

**Extinguishing media**

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specific hazards arising from the chemical**

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td></td>
</tr>
</tbody>
</table>

**Hazardous thermal decomposition products**

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

**Special protective actions for fire-fighters**

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
<td></td>
</tr>
</tbody>
</table>

**Special protective equipment for fire-fighters**

<table>
<thead>
<tr>
<th>DNA Ladder, 100 bp</th>
<th>6X DNA Loading Buffer (OXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
<td></td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: DNA Ladder, 100 bp Put on appropriate personal protective equipment (see Section 8).

6X DNA Loading Buffer (OXG) Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: DNA Ladder, 100 bp Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

6X DNA Loading Buffer (OXG) Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: DNA Ladder, 100 bp Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate
### Section 7. Handling and storage

6X DNA Loading Buffer (OXG)

- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits**

None.

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Environmental exposure controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</td>
<td>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</td>
</tr>
</tbody>
</table>

**Individual protection measures**

| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Hand protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Body protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Respiratory protection | |
# Section 9. Physical and chemical properties

**Physical state**
- DNA Ladder, 100 bp: Liquid.
- 6X DNA Loading Buffer (OXG): Liquid.

**Color**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Odor**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Flash point**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Auto-ignition temperature**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Flammable limits**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Molecular weight**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Molecular formula**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**pH**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Boiling/condensation point**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Melting/freezing point**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Relative density**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Vapor pressure**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Vapor density**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Volatility**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Evaporation rate**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Viscosity**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Solubility**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

**Physical/chemical properties comments**
- DNA Ladder, 100 bp: Not available.
- 6X DNA Loading Buffer (OXG): Not available.

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# Section 10. Stability and reactivity

**Reactivity**
- DNA Ladder, 100 bp: No specific test data related to reactivity available for this product or its ingredients.
- 6X DNA Loading Buffer (OXG): No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**
- DNA Ladder, 100 bp: The product is stable.
- 6X DNA Loading Buffer (OXG): The product is stable.

**Possibility of hazardous reactions**
- DNA Ladder, 100 bp: Under normal conditions of storage and use, hazardous reactions will not occur.
- 6X DNA Loading Buffer (OXG): Under normal conditions of storage and use, hazardous reactions will not occur.
Section 10. Stability and reactivity

Conditions to avoid: DNA Ladder, 100 bp No specific data.
6X DNA Loading Buffer (OXG) No specific data.

Incompatible materials: DNA Ladder, 100 bp No specific data.
6X DNA Loading Buffer (OXG) No specific data.

Hazardous decomposition products: DNA Ladder, 100 bp Under normal conditions of storage and use, hazardous decomposition products should not be produced.
6X DNA Loading Buffer (OXG) Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity
Not available.

Irritation/Corrosion
Not available.

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure
Not available.

Potential acute health effects

Eye contact:

Inhalation:

Skin contact:

Ingestion:

Symptoms related to the physical, chemical and toxicological characteristics
Section 11. Toxicological information

Eye contact : 
Inhalation : 
Skin contact : 
Ingestion : 

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure
Potential immediate effects : 
Potential delayed effects : 
Potential chronic health effects : Not available.

General :
Carcinogenicity :
Mutagenicity :
Teratogenicity :
Developmental effects :
Fertility effects :

Numerical measures of toxicity
Acute toxicity estimates
Not available.

Interactive effects :

Other information :

Section 12. Ecological information

Toxicity
Not available.

Persistence and degradability
Not available.

Bioaccumulative potential
Not available.

Mobility in soil
Soil/water partition coefficient (KOC) : DNA Ladder, 100 bp 6X DNA Loading Buffer (OXG) Not available.
Mobility :
Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed
### Section 15. Regulatory information

| Clean Air Act Section 602 Class I Substances | Not listed |
| Clean Air Act Section 602 Class II Substances | Not listed |
| DEA List I Chemicals (Precursor Chemicals) | Not listed |
| DEA List II Chemicals (Essential Chemicals) | Not listed |

#### SARA 302/304

**Composition/information on ingredients**

No products were found.

| SARA 304 RQ | Not applicable |
| SARA 311/312 | Not applicable |

**Classification**

No products were found.

#### State regulations

| Massachusetts | None of the components are listed |
| New York | None of the components are listed |
| New Jersey | None of the components are listed |
| Pennsylvania | None of the components are listed |

#### International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Canada

**WHMIS (Canada)**

- DNA Ladder, 100 bp Not controlled under WHMIS (Canada).
- 6X DNA Loading Buffer (OXG) Not controlled under WHMIS (Canada).

**Canadian lists**

| Canadian NPRI | None of the components are listed |
| CEPA Toxic substances | None of the components are listed |
| Canada inventory | Not determined |
Section 16. Other information

Hazardous Material Information System (U.S.A.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Instability/Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td></td>
</tr>
</tbody>
</table>

History

- **Date of issue/Date of revision**: 06/20/2016.
- **Date of previous issue**: No previous validation.
- **Version**: 1
- **Key to abbreviations**:
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - UN = United Nations

Green triangles indicate information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.