**SAFETY DATA SHEET**

**Buffer DL**

### Section 1. Identification

<table>
<thead>
<tr>
<th>GHS product identifier</th>
<th>Buffer DL</th>
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<tbody>
<tr>
<td>Other means of identification</td>
<td>:</td>
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<tr>
<td>Product code</td>
<td>:</td>
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<tr>
<td>Product type</td>
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</table>

**Identified uses**

### Section 2. Hazards identification

#### Classification of the substance or mixture

Not classified.

#### GHS label elements

**Signal word**

No signal word.

**Hazard statements**

No known significant effects or critical hazards.

#### Precautionary statements

**Prevention**

Not applicable.

**Response**

Not applicable.

**Storage**

Not applicable.

**Disposal**

Not applicable.

**Physical hazards not otherwise classified (PHNOC)**

None known.

**Health hazards not otherwise classified (HHNOC)**

None known.
Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification :

CAS number/other identifiers
- CAS number : Not applicable.
- Product code :

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 : Not applicable.
- Inhalation : Not applicable.
- Skin contact : Not applicable.
- Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed
Potential acute health effects
- Eye contact : No known significant effects or critical hazards.
- Inhalation : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms
- Eye contact : No known significant effects or critical hazards.
- Inhalation : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary
- Notes to physician : Treat symptomatically.
- Specific treatments : No specific treatment.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media
- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.
Section 5. Fire-fighting measures

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : No special measures are required.
Special protective equipment for fire-fighters : No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Put on appropriate personal protective equipment.
For emergency responders : If specialized 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 : No special requirements.

Methods and materials for containment and cleaning up

Spill : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene : 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limits
No exposure limit value known.

Appropriate engineering controls : No special measures are required.
Environmental exposure controls : No special measures are required.

Individual protection measures

Hygiene measures : Follow good hygiene measure.
Eye/face protection : Not required under normal conditions of use.
Section 8. Exposure controls/personal protection

**Skin protection**
- **Hand protection**: Not required under normal conditions of use.
- **Body protection**: Not required under normal conditions of use.
- **Other skin protection**: Not required under normal conditions of use.
- **Respiratory protection**: Not required under normal conditions of use.

Section 9. Physical and chemical properties

**Appearance**
- **Physical state**: Liquid. [Clear.]
- **Color**: Colorless.
- **Odor**: Odorless.
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point**: Not available.
- **Boiling point**: Not available.
- **Flash point**: Not applicable.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Lower and upper explosive (flammable) limits**: Not applicable.
- **Vapor pressure**: Not available.
- **Vapor density**: Not available.
- **Relative density**: Not available.
- **Solubility**: Not available.
- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: Not applicable.
- **Decomposition temperature**: Not available.
- **Viscosity**: Not available.
- **Volutility**: Not available.
- **VOC (w/w)**: 0 % (w/w)

Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**: No specific data.

**Incompatible materials**: None known.
Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity
There is no data available.

Irritation/Corrosion
There is no data available.

Sensitization
There is no data available.

Carcinogenicity
There is no data available.

Specific target organ toxicity (single exposure)
There is no data available.

Specific target organ toxicity (repeated exposure)
There is no data available.

Aspiration hazard
There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

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

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
Section 11. Toxicological information

- **Carcinogenicity**: No known significant effects or critical hazards.
- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: No known significant effects or critical hazards.
- **Developmental effects**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

There is no data available.

Section 12. Ecological information

**Toxicity**

There is no data available.

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

There is no data available.

**Mobility in soil**

- **Soil/water partition coefficient (K_{ow])**: There is no data available.

**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. No specific disposal consideration.

Section 14. Transport information

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<th>IMDG</th>
<th>IATA</th>
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<tr>
<td><strong>Additional information</strong></td>
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</tbody>
</table>
Section 14. Transport information

**AERG**: Not applicable.

**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

**Canadian lists**
- **Canadian NPRI** : None of the components are listed.
- **CEPA Toxic substances** : None of the components are listed.
- **Canada inventory** : All components are listed or exempted.

**International lists**

**National inventory**
- **Australia** : All components are listed or exempted.
- **China** : All components are listed or exempted.
- **Europe** : All components are listed or exempted.
- **Japan** : All components are listed or exempted.
- **Malaysia** : Not determined.
- **New Zealand** : All components are listed or exempted.
- **Philippines** : All components are listed or exempted.
- **Republic of Korea** : All components are listed or exempted.
- **Taiwan** : Not determined.

Section 16. Other information

**History**
- **Date of issue** : 11/07/2016
- **Date of previous issue**
- **Version** : 1
- **Prepared by** : KMK Regulatory Services Inc.

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