**SECTION 1: Identification**

1. **Identification**
   - Product form: Mixtures
   - Product name: EDTA, 0.25M (0.5N)
   - Product code: LC13910

2. **Relevant identified uses of the substance or mixture and uses advised against**
   - Use of the substance/mixture: For laboratory and manufacturing use only.
   - Restrictions on use: Not for food, drug or household use

3. **Details of the supplier of the safety data sheet**
   - LabChem Inc
   - Jackson’s Pointe Commerce Park Building 1000, 1010 Jackson’s Pointe Court
   - Zelienople, PA 16063 - USA
   - T 412-826-5230 - F 724-473-0647
   - info@labchem.com - www.labchem.com

4. **Emergency telephone number**
   - Emergency number: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

**SECTION 2: Hazard(s) identification**

1. **Classification of the substance or mixture**
   - GHS-US classification: Not classified

2. **Label elements**
   - Not classified as a hazardous chemical.

3. **Other hazards**
   - Other hazards not contributing to the classification: None.

4. **Unknown acute toxicity (GHS US)**
   - Not applicable

**SECTION 3: Composition/Information on ingredients**

1. **Substances**
   - Not applicable

2. **Mixtures**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>90.69</td>
<td>Not classified</td>
</tr>
<tr>
<td>EDTA, Disodium, Dihydrate</td>
<td>(CAS No) 6381-92-6</td>
<td>9.31</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

**SECTION 4: First aid measures**

1. **Description of first aid measures**
   - First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
   - First-aid measures after inhalation: Allow victim to breathe fresh air. Allow the victim to rest.
   - First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
   - First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
   - First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

2. **Most important symptoms and effects, both acute and delayed**
   - Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.
**EDTA, 0.25M (0.5N)**
Safety Data Sheet

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### 4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media


**Unsuitable extinguishing media**: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

**Reactivity**: None.

#### 5.3. Advice for firefighters

**Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**6.1.1. For non-emergency personnel**

**Protective equipment**: Safety glasses.

**Emergency procedures**: Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

**Protective equipment**: Equip cleanup crew with proper protection.

**Emergency procedures**: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling**: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

**Hygiene measures**: Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions**: Keep container closed when not in use.

**Incompatible products**: None known.

**Incompatible materials**: None known.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**EDTA, Disodium, Dihydrate (6381-92-6)**

Not applicable

**Water (7732-18-5)**

Not applicable

#### 8.2. Exposure controls

**Appropriate engineering controls**: Provide adequate general and local exhaust ventilation.
EDTA, 0.25M (0.5N)
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Personal protective equipment: Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: None necessary.
Other information: Do not eat, drink or smoke during use.

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>Appearance</td>
<td>Clear, colorless liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</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>No data available</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>Non flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>1.05 g/ml</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</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>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None.</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None.

10.4. Conditions to avoid
None.

10.5. Incompatible materials
None.
EDTA, 0.25M (0.5N)
Safety Data Sheet

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Skin and eye contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**EDTA, Disodium, Dihydrate (6381-92-6)**

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>2000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>2000.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

**Water (7732-18-5)**

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>≥ 90000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>90000.000 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

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

**EDTA, Disodium, Dihydrate (6381-92-6)**

| LC50 fish 1 | >= 500 mg/l |

12.2. Persistence and degradability

**EDTA, 0.25M (0.5N)**

Persistence and degradability: Not established.

**EDTA, Disodium, Dihydrate (6381-92-6)**

Persistence and degradability: Not established.

**Water (7732-18-5)**

Persistence and degradability: Not established.

12.3. Bioaccumulative potential

**EDTA, 0.25M (0.5N)**

Bioaccumulative potential: Not established.

**EDTA, Disodium, Dihydrate (6381-92-6)**

Bioaccumulative potential: Not established.

**Water (7732-18-5)**

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects
**EDTA, 0.25M (0.5N)**

Safety Data Sheet

Effect on the global warming : No known effects from this product.
GWPMix comment : No known effects from this product.

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- **Waste disposal recommendations** : Dispose in a safe manner in accordance with local/national regulations.
- **Ecology - waste materials** : Avoid release to the environment.

### SECTION 14: Transport information

- **Department of Transportation (DOT)**
  - In accordance with DOT
  - Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th><strong>EDTA, 0.25M (0.5N)</strong></th>
<th>Uncontrolled product according to WHMIS classification criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDTA, Disodium, Dihydrate (6381-92-6)</strong></td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td><strong>Water (7732-18-5)</strong></td>
<td>Uncontrolled product according to WHMIS classification criteria</td>
</tr>
</tbody>
</table>

**EU-Regulations**

No additional information available

**National regulations**

| **EDTA, Disodium, Dihydrate (6381-92-6)** | Not listed on the Canadian IDL (Ingredient Disclosure List) |

**15.3. US State regulations**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

- **Revision date** : 01/17/2017
- **Other information** : None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</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>
EDTA, 0.25M (0.5N)
Safety Data Sheet

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : A
A - Safety glasses

SDS US LabChem

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