**SECTION 1: Identification**

1.1. **Identification**
- Product form: Mixtures
- Product name: Sodium Thiosulfate, 0.2N (0.2M)
- Product code: LC25065

1.2. **Recommended use and restrictions on use**
- Use of the substance/mixture: For laboratory and manufacturing use only.
- Recommended use: Laboratory chemicals
- Restrictions on use: Not for food, drug or household use

1.3. **Supplier**
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

1.4. **Emergency telephone number**
- Emergency number: CHEMTREC: 1-800-424-9300 or +1-703-741-5970

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

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

2.2. **GHS Label elements, including precautionary statements**
- Not classified as a hazardous chemical.
- Other hazards not contributing to the classification: None.

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

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

3.1. **Substances**
- Not applicable

3.2. **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>95.02</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Thiosulfate, Pentahydrate</td>
<td>(CAS-No.) 10102-17-7</td>
<td>4.96</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Carbonate, Anhydrous</td>
<td>(CAS-No.) 497-19-8</td>
<td>0.02</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

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

**SECTION 4: First-aid measures**

4.1. **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.

4.2. **Most important symptoms and effects (acute and delayed)**
- Symptoms/effects: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention and special treatment, if necessary

None.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


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

5.2. Specific hazards arising from the chemical

Fire hazard: Not flammable.
Explosion hazard: Not available.
Reactivity: None.

5.3. Special protective equipment and precautions for fire-fighters

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

General measures: None.

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

For containment: Dam up the liquid spill.
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: Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container closed when not in use.
Incompatible materials: Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sodium Thiosulfate, Pentahydrate (10102-17-7) | Not applicable |
| Water (7732-18-5) | Not applicable |
Sodium Thiosulfate, 0.2N (0.2M)
Safety Data Sheet

8.2. Appropriate engineering controls
Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures / Personal protective equipment
Hand protection:
Wear protective gloves.

Eye protection:
Chemical goggles or safety glasses

Respiratory protection:
Wear appropriate mask

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

Physical state: Liquid
Appearance: Clear, colorless liquid.
Color: Colorless
Odor: None.
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Non flammable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Solubility: Miscible with water.
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: Not applicable.
Oxidizing properties: None.

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
None.
Sodium Thiosulfate, 0.2N (0.2M)  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.2. Chemical stability  
Not established.

10.3. Possibility of hazardous reactions  
Not established.

10.4. Conditions to avoid  
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials  
Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products  
Sulfur compounds. Carbon dioxide.

SECTION 11: Toxicological information  
11.1. Information on toxicological effects  
Likely routes of exposure : Skin and eye contact  
Acute toxicity : Not classified

<table>
<thead>
<tr>
<th>Sodium Thiosulfate, Pentahydrate (10102-17-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>5000 mg/kg body weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water (7732-18-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 90000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>90000 mg/kg body weight</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium Carbonate, Anhydrous (497-19-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4090 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>4090 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  
<table>
<thead>
<tr>
<th>Sodium Thiosulfate, Pentahydrate (10102-17-7)</th>
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</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>≥ 10000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium Carbonate, Anhydrous (497-19-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>300 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>265 mg/l</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>740 mg/l</td>
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</table>
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
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<tbody>
<tr>
<td>Sodium Thiosulfate, 0.2N (0.2M)</td>
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<tr>
<td>Sodium Thiosulfate, Pentahydrate</td>
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<tr>
<td>Water (7732-18-5)</td>
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<tr>
<td>Sodium Carbonate, Anhydrous</td>
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</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
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</thead>
<tbody>
<tr>
<td>Sodium Thiosulfate, 0.2N (0.2M)</td>
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<tr>
<td>Sodium Thiosulfate, Pentahydrate</td>
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<tr>
<td>Water (7732-18-5)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Sodium Carbonate, Anhydrous</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal 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

15.2. International regulations

CANADA

<table>
<thead>
<tr>
<th>Substance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Thiosulfate, Pentahydrate</td>
<td>Listed on the Canadian DSL</td>
</tr>
<tr>
<td>Sodium Carbonate, Anhydrous</td>
<td>Listed on the Canadian DSL</td>
</tr>
</tbody>
</table>
Sodium Thiosulfate, 0.2N (0.2M)
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations
No additional information available

National regulations

Sodium Thiosulfate, Pentahydrate (10102-17-7)
Not listed on the Canadian IDL (Ingredient Disclosure List)

Sodium Carbonate, Anhydrous (497-19-8)
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 : 04/18/2018
Other information : None.
Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>H-phrases</th>
<th>Description</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>
</tbody>
</table>

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating
Health : 0 Minimal Hazard - No significant risk to health
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 : B
B - Safety glasses, Gloves

SDS US LabChem

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