Section I - Product Identification
An aqueous solution of sodium borate.

Section II - Hazards Identification
Overview: May be harmful if swallowed. May be irritating to skin and eyes.

Safety Ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slight</td>
<td>None</td>
<td>None</td>
<td>Slight</td>
</tr>
</tbody>
</table>

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings
Health = 1     Flammability = 0     Reactivity = 0

Potential Health Effects
The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other borates.

Inhalation: May be irritating.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Not normally a problem.

Eye contact: May be irritating.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Unknown.

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td>1330-43-4</td>
<td>1 mg/m³ TWA</td>
<td>5 mg/m³ TWA</td>
<td></td>
<td>4% w/v</td>
</tr>
</tbody>
</table>

Section IV - First Aid Measures

Inhalation: Unlikely to be a problem. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.
Section V - Fire Fighting Measures

*Flash point:* Not applicable.
*Flammable Limits (for ethanol):* Not applicable.
*Fire:* Not normally a fire hazard.
*Explosion:* Not normally an explosion hazard.
*Fire Extinguishing Media:* Any means suitable for surrounding fire.
*Special information:* Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

*Boiling Point:* 101 °C
*Density:* 1.015 g/ml
*Vapor pressure (mm Hg):* 18 @ 20 °C
*Evaporation Rate (water = 1):* 1
*Vapor Density (air = 1):* 0.6
*Solubility:* Infinitely miscible with water

*Appearance and Odor:* A clear, colorless liquid.

Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

Section XI - Toxicological Information

None relating to normal exposure.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

*Environmental Fate:* Biodegradable
*Environmental Toxicity:* None
Section XIII - Disposal Considerations
Waste disposal is usually not restricted but local ordinances vary. Insure compliance with all government regulations.

Section XIV - Transportation Information
Not regulated.

Section XV - Regulatory Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA 261.33</th>
<th>TSCA 8(D)</th>
<th>Ca. Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Chemical Inventory Status:

- Sodium borate: TSCA Yes, EC Yes
- SARA 302 RQ Ca. Prop 65
- SARA 313 TPQ
- RCRA 261.33
- TSCA 8(D)
- CDTA: No
- SARA 311/312: Acute: Yes, Chronic: No, Fire: No

Section XVI - Other Information
This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.
Revision Date: Jan. 15, 2018