1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Statement of Hazardous Nature**
Non-Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according to the criteria of ADG.

**Manufacturer/Supplier**
Halliburton Australia Pty. Ltd.
15 Marriott Road
Jandakot
WA 6164
Australia

ACN Number: 009 000 775
Telephone Number: 61 (08) 9455 8300
Fax Number: 61 (08) 9455 5300

**Product Emergency Telephone**
Australia: 08-64244950
Papua New Guinea: 05 1 281 575 5000
New Zealand: 06-7559274

**Fire, Police & Ambulance - Emergency Telephone**
Australia: 000
Papua New Guinea: 000
New Zealand: 111

Identification of Substances or Preparation

**Product Trade Name:** STRONG VERSENATE SOLUTION STANDARD 10X, 0.1 Molar EDTA (11348)

**Synonyms:** None

**Chemical Family:** Not applicable

**UN Number:** None

**Dangerous Goods Class:** None

**Subsidiary Risk:** None

**Hazchem Code:** None Allocated

**Poisons Schedule:** None Allocated

**Application:** Reagent

**Prepared By**
Chemical Compliance
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>CAS Number</th>
<th>PERCENT</th>
<th>Australia NOHSC</th>
<th>New Zealand WES</th>
<th>ACGIH TLV-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid, disodium salt</td>
<td>139-33-3</td>
<td>1 - 5%</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Non-Hazardous Substance to Total of 100%
3. HAZARDS IDENTIFICATION

Hazard Overview  
May cause eye, skin, and respiratory irritation.

Risk Phrases  
None

HSNO Classification  
Not Determined

4. FIRST AID MEASURES

Inhalation  
If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin  
Wash with soap and water. Get medical attention if irritation persists.

Eyes  
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion  
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician  
Not Applicable

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media  
All standard fire fighting media

Extinguishing media which must not be used for safety reasons  
None known.

Special Exposure Hazards  
Not applicable.

Special Protective Equipment for Fire-Fighters  
Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures  
Use appropriate protective equipment.

Environmental Precautionary Measures  
None known.

Procedure for Cleaning / Absorption  
Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions  
Avoid contact with eyes, skin, or clothing.

Storage Information  
Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls  
None known.

Respiratory Protection  
Not normally necessary.
Hand Protection  Impervious rubber gloves.
Skin Protection  Normal work coveralls.
Eye Protection  Chemical goggles; also wear a face shield if splashing hazard exists.
Other Precautions  None known.

9. 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>Color</td>
<td>Clear colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity @ 20 °C (Water=1):</td>
<td>1.02</td>
</tr>
<tr>
<td>Density @ 20 °C (kg/l)</td>
<td>1.02</td>
</tr>
<tr>
<td>Bulk Density @ 20 °C (kg/m³)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Boiling Point/Range (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Freezing Point/Range (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Pour Point/Range (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point/Range (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Autoignition Temperature (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability Limits in Air - Lower (g/m³):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability Limits in Air - Lower (%):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability Limits in Air - Upper (g/m³):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability Limits in Air - Upper (%):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure @ 20 °C (mmHg)</td>
<td>14</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>0.7</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1):</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Solubility in Water (g/100ml)</td>
<td>Soluble</td>
</tr>
<tr>
<td>Solubility in Solvents (g/100ml)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>VOCs (g/l)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity, Dynamic @ 20 °C (centipoise):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity, Kinematic @ 20 °C (centistokes):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Partition Coefficient/n-Octanol/Water:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Molecular Weight (g/mole)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability Data</td>
<td>Stable</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will Not Occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>None anticipated</td>
</tr>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>Strong oxidizers.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Oxides of nitrogen. Carbon monoxide and carbon dioxide.</td>
</tr>
<tr>
<td>Additional Guidelines</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principle Route of Exposure</td>
<td>Eye or skin contact, inhalation.</td>
</tr>
</tbody>
</table>
Symptoms related to exposure

Inhalation  May cause mild respiratory irritation.

Skin Contact  May cause mild skin irritation.

Eye Contact  May cause mild eye irritation.

Ingestion  Irritation of the mouth, throat, and stomach.

Aggravated Medical Conditions  None known.

Chronic Effects/Carcinogenicity  No data available to indicate product or components present at greater than 1% are chronic health hazards.

Other Information  None known.

Toxicity Tests

- Oral Toxicity:  Not determined
- Dermal Toxicity:  Not determined
- Inhalation Toxicity:  Not determined
- Primary Irritation Effect:  Not determined
- Carcinogenicity:  Not determined
- Genotoxicity:  Not determined
- Reproductive / Developmental Toxicity:  Not determined

12. ECOLOGICAL INFORMATION

- Mobility (Water/Soil/Air)  Not determined
- Persistence/Degradability  Not determined
- Bio-accumulation  Not determined

Ecotoxicological Information

- Acute Fish Toxicity:  Not determined
- Acute Crustaceans Toxicity:  Not determined
- Acute Algae Toxicity:  Not determined
- Chemical Fate Information  Not determined
- Other Information  Not applicable

13. DISPOSAL CONSIDERATIONS

- Disposal Method  Disposal should be made in accordance with federal, state, and local regulations.
- Contaminated Packaging  Follow all applicable national or local regulations.
14. TRANSPORT INFORMATION

Land Transportation

ADR
Not restricted

Air Transportation

ICAO/IATA
Not restricted

Sea Transportation

IMDG
Not restricted

Other Transportation Information

Labels: None

15. REGULATORY INFORMATION

Chemical Inventories

Australian AICS Inventory All components listed on inventory or are exempt.
New Zealand Inventory of All components listed on inventory or are exempt.
Chemicals
US TSCA Inventory All components listed on inventory or are exempt.
EINECS Inventory This product, and all its components, complies with EINECS

Classification Not Classified

Risk Phrases None

Safety Phrases None

16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS
Not applicable

Contact

Australian Poisons Information Centre
24 Hour Service: - 13 11 26
Police or Fire Brigade: - 000 (exchange): - 1100

New Zealand National Poisons Centre
0800 764 766

Additional Information For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.
Disclaimer Statement

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***END OF MSDS***