MATERIAL SAFETY DATA SHEET
Sodium Perchlorate Solution

SECTION 1 – Product and Company Identification

Product Name and Synonym: Sodium Perchlorate Solution
Product Code: D76204,76205
Material Uses: Deluxe Testing Equipment Inc.
Manufacturer: 26789 Hanna Road
Conroe, Texas 77385-6609
Tel: 832.295.9090
Fax: 832.436.4722
Entry Date: 8/30/2011
Print Date: 8/30/2011
24 Hour Emergency Assistance Infotrac 800.535.5053

SECTION 2 – Hazard Identification

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

Emergency Overview: Strong oxidizer. Heat, shock or contact with other materials may cause fire or explosion. Harmful if swallowed. Irritating to skin, eyes and mucous membranes.

Inhalation: Irritates the respiratory tract. Symptoms may include coughing and scratchy throat.

Ingestion: May cause irritation to the mucous membranes.

Skin: Effects are expected to be less severe than from exposure to higher concentrations where symptoms include irritation to the skin with redness, itching and pain.

Eye Contact: Effects should be less severe than from exposure to higher concentrations where symptoms include blurred vision, redness, pain and burns to eye tissue and possible permanent eye damage.

Chronic Exposure: No information found
Aggravated by Exposure: No information found

SECTION 3 – Mixture Components

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Component</th>
<th>CAS Number</th>
<th>Percent Comp.</th>
<th>Dimension</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>Sodium Perchlorate Monohydrate</td>
<td>CAS# 7791-07-3</td>
<td>93.75%</td>
<td>W/W</td>
<td>None Established</td>
</tr>
<tr>
<td>□</td>
<td>Water, Deionized ASTM Type II</td>
<td>CAS# 7732-18-5</td>
<td>Balance</td>
<td>V/V</td>
<td>None Established</td>
</tr>
</tbody>
</table>

SECTION 4 – First Aid Measures

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.
EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
INGESTION: If swallowed, give large quantities of water and get medical attention immediately.

SECTION 5 – Fire Fighting Measures

Health: 2
Flammability: 0
Reactivity: 2

Hazard Rating: Least Slight Moderate High Extreme
NA = Not Applicable  NE = Not Established

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Fire Extinguisher Type: Water spray or foam
Fire/Explosion Hazards: Material will burn a fire. Contact with other materials may cause a fire. May release toxic gases during fire.
Firefighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 – Accidental Release Measures
Cover with dry line, sand, or soda ash. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., Vermiculite, dry sand, earth), and place in a in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

SECTION 7 – Handling and Storage
Store in a cool, dry, well-ventilated area. Keep away from heat and flame. Keep away from combustible materials.

SECTION 8 – Exposure Controls/Personal Protection
Respiratory protection: NIOSH/MSHA Approved Respirator
Ventilation: Local Exhaust
Protective gloves: Where appropriate gloves to prevent skin exposure
Eye protection: Splash Goggles
Other protective equipment: Wear appropriate clothing to prevent skin exposure.

SECTION 9 – Physical and Chemical Properties
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>Information not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Information not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Information not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Information not available</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Appearance/Odors</td>
<td>Clear odorless liquid</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Information not available</td>
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<tr>
<td>Percent Volatile By Volume</td>
<td>Information not available</td>
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<tr>
<td>Evaporation Rate</td>
<td>Information not available</td>
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<tr>
<td>Evaporation Standard</td>
<td>Information not available</td>
</tr>
<tr>
<td>Auto Ignition Temp</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flamm. Limit In Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Flamm. Limit In Air</td>
<td>Not applicable</td>
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<tr>
<td>Specific Gravity</td>
<td>Information not available</td>
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</table>

SECTION 10 – Stability and Reactivity Information
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Incompatibilities</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Organic materials, strong acids, finely powdered metals, reducing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Toxic gases and fumes if involved in a fire</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>None known</td>
</tr>
</tbody>
</table>

SECTION 11 – Toxicological Information
Carcinogenic References: NTP Carcinogen - Known: No, IARC Category - None

SECTION 12 – Ecological Information
Environmental Fate: No Information Found.

SECTION 13 – Disposal Considerations
Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposer (TSD) to assure
SECTION 14 – Transport Information
DOT Classification: UN3139, Oxidizing liquid n.o.s. (Sodium Perchlorate) 5.1, PG II
DOT regulations may change from time to time. Please consult the most recent DOT regulations.

SECTION 15 – Regulatory Information
The CAS number of this product is listed on the TSCA Inventory.

SECTION 16 – Additional Information
Harmful if inhaled or swallowed. Causes eye and skin irritation. Irritating to mucous membranes and upper respiratory tract. Target organs: Thyroid and blood. Strong oxidizer. Heat shock or contact with other materials may cause fire or explosion. Harmful if swallowed. Irritating to skin, eyes and mucous membranes.