This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier
Product name: LIQUID BLEACH
Product form: Liquid
Other means of identification: 1503

Relevant identified uses of the substance or mixture: Bleach

Details of the supplier of the safety data sheet
Manufacturer:
Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150
Phone: 816-472-5515

Emergency telephone number
Emergency number  : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification
Skin corrosion/irritation (Category 1)
Serious eye damage / eye irritation (Category 1)
Specific target organ toxicity, single exposure, (Category 3), Respiratory tract irritation.

Pictogram

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements – Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dusts or mists.
Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. IF SWALLOWED: Rinse mouth, Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements – Storage
Store in a well ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section III – Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Name</th>
<th>CAS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>12.5-15.6</td>
</tr>
<tr>
<td></td>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>9-10</td>
</tr>
<tr>
<td></td>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

**Inhalation:** Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.

**Skin Contact:** Remove contaminated clothing, wash with soap and plenty of water. Get medical attention.

**Most Important Symptoms and Effects, both Acute and Delayed**

**Symptoms**
May cause severe skin burns and serious eye damage.
Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: No data available. Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media
Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media  Do not use water jet.

Specific Hazards Arising from the Chemical
Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 °F (30 °C)

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

Section VI – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions  Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Prevent discharge to the environment, municipal sewers.

Methods for Cleaning Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
**Section VIII – Exposure Controls/ Personal Protection**

### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ CEIL</td>
<td>2 mg/m³ CEIL</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>No established limit</td>
<td>No established limit</td>
<td>No established limit</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>No established limit</td>
<td>No established limit</td>
<td>No established limit</td>
</tr>
</tbody>
</table>

---

**Appropriate Engineering Controls**

**Engineering Controls:** Provide adequate ventilation, eyewash stations.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Wear approved safety goggles and face shield where a splash hazard exists.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

---

**Section IX – Physical & Chemical Properties**

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Pale yellow or greenish</td>
</tr>
<tr>
<td>pH</td>
<td>12-13</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>-3 °F (-19.4 °C)</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Decomposes above 230 °F (110 °C)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid,Gas)</td>
<td>n/a-liquid</td>
</tr>
<tr>
<td>Upper Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>17.5 mmHg @ 20 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.2-1.4</td>
</tr>
</tbody>
</table>
Water Solubility: Complete
Solubility in Other Solvents: No data available
Partition Coefficient: No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Kinematic Viscosity: No data available
Dynamic Viscosity: No data available
Explosive Properties: Not an Explosive
Oxidizing Properties: No data available
Odor: Pungent, chlorine odor
Odor Threshold: No data available

**Section X – Stability & Reactivity**

**Reactivity**
Hazardous polymerization will not occur. No data available.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
No data available

**Conditions to Avoid**
Contact with incompatible materials. Acid contact will produce chlorine gas.

**Incompatible Materials**
Any acidic material, ammonia, urea, oxidizers, organics and metals such as nickel, copper, tin, aluminum and iron.

**Hazardous Decomposition Products**
None are known.

**Section XI - Toxicological information**

**Information on Likely Routes of Exposure**

**Product Information**

**Inhalation:** Avoid breathing vapors or mists.

**Eye Contact:** Causes serious eye irritation

**Skin Contact:** Avoid contact with skin.

**Ingestion:** May be harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>5000 mg/kg (Rat)</td>
<td>10000 mg/kg (Rabbit)</td>
<td>10.5 mg/l (Rat)</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>1350 mg/kg (Rabbit)</td>
<td>100 mg/kg (Rabbit)</td>
<td>40 mg/l (Mouse)</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>6600 mg/kg (Mouse)</td>
<td>1350 mg/kg (Rabbit)</td>
<td>600 mg/l (Mouse)</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Sodium hypochlorite mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Severe skin burns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye damage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No evidence by IARC, ACGIH, NTP or OSHA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity-</td>
<td>May cause respiratory irritation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single exposure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity-</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>repeated exposure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity:** Not determined

---

**Section XII - Ecological information**

**Ecotoxicity**
There is no data available for this product as a whole.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>ErC50 0.40 mg/l, Dunaliella primolecta, 72 h</td>
<td>LC50 0.08 mg/l, Pimephales promelas, 96 h</td>
<td>EC50 0.032 mg/l, Daphnia Magna, 48 h</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>No data available</td>
<td>LC50 1100 mg/l, Freshwater fish, 96 h</td>
<td>EC50 3310 mg/l, Daphnia Magna, 48 h</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>No data available</td>
<td>LC50 196 mg/l, Poecilia reticulata, 96 h</td>
<td>EC50 40.38 mg/l, Ceriodaphnia dubia, 48 h</td>
</tr>
</tbody>
</table>

**Persistence and Degradability**
No data available

**Bioaccumulation**
No data available

**Mobility**
No data available

---

**Section XIII - Disposal considerations**

**Waste Disposal Method**
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

**Section XIV - Transport information**

**DOT Proper Shipping Description:**

**Bulk or Non-Bulk:** UN1791, Hypochlorite solutions, 8, PGIII
1.3 gallons or less may be shipped as a Limited Quantity.

**Section XV - Regulatory information**

**SARA Title III Section 311/312 (40CFR370):** Acute health hazard
**SARA Title III Section 313 (40CFR372):** No reportable component.
**RCRA Status (40CFR261.33):** No reportable components.
**TSCA Inventory Status:** Reported/included
**OSHA/NTP/IARC Carcinogen Status:** Not listed
**Canadian DSL Status:** Reported/included

**Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:**
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Section XVI - Other information**

**HMIS ratings:**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Indication of changes:** Revision – 1
**Date Sheet Prepared:** 10/06/2015  **Other information:** Author – EHS Administrator

************************************************************************************************************

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty’s, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

**END OF SDS**