1. Product and company identification

Product Name: Chlor Plus Sodium Hypochlorite 12.5%
UN/ID No.: UN1791 Sodium Hypochlorite

Recommended use of the chemical and restrictions on use
Recommended use: Bleach for Industrial and Commercial Use Only

Supplier: Universal Laboratories a Division of Hanson Loran Co.
6700 Caballero Blvd.
Buena Park, CA. 90620

Manufacturer: Universal Laboratories a Division of Hanson Loran Co.

Print date: December 21, 2016

Responsible name: K.B.

In case of emergency:
FOR CHEMICAL EMERGENCY
Spill, Leak, Exposure or Incident
Call INFOTRAC • 24-Hour Number
1-800-535-5053 or +1-352-323-3500 (outside USA)

Product type: Mixture

2. Hazards identification

Appearance: Clear yellow liquid
Physical State: Liquid
Odor: Chlorine

Classification
Skin Corrosion/irritation: Category 1
Serious eye damage/eye irritation: Category 1

Signal Word: Danger
Pictogram: 

Hazard Statement
Causes severe skin burns and eye damage

Precautionary Statements – Preventions
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response
Immediately call a POISON CENTER or doctor/physician
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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
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.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Precautionary Statements – Storage
Store locked up

Precautionary Statements – Disposal
Dispose of contents/container to an approved waste disposal plant.

Other Hazards
Very toxic to aquatic life and long lasting effects
Very toxic to aquatic life

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>12.5</td>
</tr>
</tbody>
</table>

4. First aid measures

| Eye contact:                                      | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician. |
| Skin contact:                                     | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention. |
| Inhalation:                                       | 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. |
| Ingestion:                                        | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Drink plenty of water or milk immediately. Immediately call a POISON CENTER or doctor/physician. |

Most important symptoms and effects:
Symptoms Causes severe skin burns and eye damage. May cause respiratory irritation. Inhalation may cause burns. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach.

Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media
Using extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined

Specific Hazards arising from the Chemical
Product is not flammable.

Hazardous Combustion Products None known

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological information. See Section 13, Disposal Considerations, for additional information.

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike spill area and cap leaking container as necessary to prevent further spreading of spilled material. Absorb spilled liquid and suitable material such as dirt or sand.

**Methods for Clean-up** Pick up and transfer to properly labeled containers.

7. Handling and storage

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes, or clothing. Wash face, dust/fume/gas/vapors/spray.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep from freezing.


8. Exposure controls/personal protection

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Local exhaust ventilation recommended. Eyewash stations. Showers.

**Individual-protection measures, such as personal protective equipment**

**Eye/Face Protection** Chemical Anti-splash safety goggles

**Skin and Body Protection** Rubber gloves. Suitable protective clothing

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

**General Hygiene considerations** Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. Physical and chemical properties

**Information on basic 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>Flash Point</td>
<td>Clear yellow liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear yellowish</td>
</tr>
<tr>
<td>Odor</td>
<td>Chlorine</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>10-11</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>-100 °C - 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid-not applicable</td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
**10. Stability reactivity**

Reactivity
- Not reactive under normal conditions

Chemical Stability
- Stable under recommended storage conditions

Possibility of Hazardous Reactions
- None under normal processing

Hazardous Polymerization
- Hazardous polymerization does not occur.

Conditions to Avoid
- Excessive heat. Avoid direct sunlight. Environment

Incompatible Materials
- Strong mineral acids. Strong acids, Organic materials, Do not mix with other chemicals or cleaners.

Hazardous Decomposition Products
- None known based on information supplied.

**11. Toxicological information**

Information on likely routes of exposure

Product Information

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>Causes severe eye damage</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Causes severe skin burns</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Avoid breathing vapors or mists</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do not taste or swallow</td>
</tr>
</tbody>
</table>

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water 7732-18-2</td>
<td>&gt;90 mL/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Hypochlorite 7681-52-9</td>
<td>8200 mg/kg (Rat)</td>
<td>&gt;10000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

**Information on physical, chemical and toxicological effects**

Symptoms
- Please see section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
- The table below indicates weather each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Group 3 IARC components are “not classifiable as human carcinogens”.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IARC (International Agency for Research on Cancer)**
- Group 3 IARC components are “not classifiable as human carcinogens”
12. Ecological information

**Exotoxicity**
Very toxic to aquatic life with long lasting effects.

### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>0.095:24 h Skeletonema Costatum mg/L EC50</td>
<td>0.06 – 0.11: 96 h Pimephales promelas mg/L LC50</td>
<td>2.1: 96 h Daphnia magna mg/L EC50 0.044: 48</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flow-through 4.5 – 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 – 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 – 1.96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 0.771:96 h Oncorhynchus mykiss mg/L LC50 Flow-through 0.03 – 0.19:96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18-0.22:96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**
Not determined.

**Other Adverse Effects**
Not determined.

13. Disposal considerations

**Waste of Wastes:**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport information

**NOTE**
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. When shipped in containers of 32 oz. or less this material may be reclassified in accordance with DOT regulation 49CFR173.154 as: Limited Quantity.
D.O.T

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>UN1791</td>
<td>Hypochlorite solutions</td>
<td>8</td>
<td>II</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>UN1791</td>
<td>Hypochlorite solutions</td>
<td>8</td>
<td>II</td>
</tr>
<tr>
<td>IATA-DGR Class</td>
<td>UN1791</td>
<td>Hypochlorite solutions</td>
<td>8</td>
<td>II</td>
</tr>
</tbody>
</table>

Marine Pollutant: This material may meet the definition of a marine pollutant

*PG: Packing group

15. Regulatory information

International Inventories
Not determined

Legend

- TSCA- United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL- Canadian Domestic Substances List/Non-domestic Substances List
- EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS- Japan Existing and New Chemical Substances
- IECS- China Inventory of Existing Chemical Substances
- KECL- Korean Existing and Evaluated Chemical Substances
- PICCS- Philippines Inventory of Chemicals and Chemical Substances.

US Federal Regulations

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>100 lb.</td>
<td></td>
<td>RQ 100 lb. final RQ, RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9 (&lt;7)</td>
<td>100 lb.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

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 7681-52-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
16. Other information

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>2</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

**Disclaimer**

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and in not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet