SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Griffin Bros., Inc.
P.O. Box 7719
Salem, OR 97303

INFORMATION PHONE: (503) 456-4743

EMERGENCY PHONE: CHEMTREC: (800) 424-9300

PRODUCT NAME: 12.5% Sodium Hypochlorite Solution

PRODUCT NUMBER: G-399

DATE PREPARED: 12/31/99

LAST REVISION: 01/09/2013

2. HAZARDOUS IDENTIFICATION

HAZARD STATEMENT(S):
H290: May be harmful to metals
H314: Causes severe skin burns and eye damage
H401: Very toxic to aquatic life

PRECAUTIONARY STATEMENT(S):
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 +P351 +P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P405: Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite</td>
<td>7681529</td>
<td>9 – 16</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310732</td>
<td>0.1 – 2.0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention.

SKIN CONTACT: Rinse skin with plenty of water. Change contaminated clothing. Get medical attention if irritation develops or persists.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Get medical attention immediately.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May decompose, generating irritating chlorine gas.

COMBUSTION PRODUCTS: N/A

WARNING REMARKS ON FIRE HAZARDS: Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

Recommended uses:
- Dairy, food and beverage industries: Sanitizing processing equipment.
- Textile industry: Bleaching agent.
- Water treatment: Sanitizing agent.

PURE: LIQUID: X
MIXTURE: X SOLID:
6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. With permission from local authorities, diluted product may be flushed to a sanitary sewer.

Large spills: Evacuate area. Absorb with sand, diatomaceous earth or similar products and dispose of in accordance with local regulations. Keep out of water supply. Absorbed products must be disposed of in accordance with applicable Federal, State, and/or local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Keep Out of Reach of Children. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS: Mix only with water. Mixing this product with ammonia, acids, detergents, etc or with organic materials, e.g. feces, urine, etc. will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.

8. EXPOSURE CONTROL/PERSOPNAL PROTECTION

EXPOSURE GUIDELINES:
Chemical Name

OSHA PEL ACGIH TLV

CHLORINE
1ppm
3mg/m3 STEL

SODIUM HYDROXIDE
2mg/m3 2 mg/m3

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before smoking, drinking, chewing gum, using tobacco or using the toilet.

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, safety shower, eyewash.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES:

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

a) Appearance: Pale yellow/green
b) Odor: Chlorine
d) pH: 12.5 (1% w/w)
e) Melting point/freezing point: No data available
f) Initial boiling point and boiling range: Decomposes @ 110°C (230°F)
g) Flash point: n/a
h) Water solubility: Miscible

OTHER:

i) Viscosity: No data available
j) Relative density (Specific Gravity): 1.198
k) Vapor pressure: No data available
l) Vapor density: 2.61
m) Water solubility: Miscible

n) Auto-ignition temperature: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: Stable

INCOMPATIBILITY: Various substances. Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia. May develop chlorine if mixed with acidic solutions.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: All bleach decomposition is dependant on temperature. For any given temperature, the higher the strength, the faster it decomposes.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High Temperatures and/or Ultra-Violet Light

11. TOXICOLOGICAL INFORMATION: No data available

12. ECOLOGICAL INFORMATION: Keep out of waterways

13. DISPOSAL CONSIDERATIONS: Dilute with large amounts of water and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN No.</th>
<th>Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>1791</td>
<td>Hypochlorite Solutions</td>
<td>8</td>
<td>III</td>
</tr>
</tbody>
</table>

GUIDE NUMBER: 154

15. REGULATORY INFORMATION: No data available

16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 3 FLAMMABILITY: 0 PHYSICAL HAZARD: 1 PERSONAL PROTECTION: H

NFPA INFORMATION: TOXICITY: 3 FIRE: 0 REACTIVITY: 1 SPECIAL: C

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