SECTION 1: Identification

1.1. Identification
- Product form: Mixture
- Product name: HYPO-CHLOR® 0.25%
- Product code: SDS VEL-127

1.2. Recommended use and restrictions on use
- Use of the substance/mixture: Disinfectant/Cleaning agent

1.3. Supplier
- Veltek Associates, Inc.
  15 Lee Blvd
  Malvern, PA 19355-1234 USA
  Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
  E-mail: vai@sterile.com
- In Canada distributed by:
  Canada Clean Room (CCR)
  20 Cope Dr.
  Kanata, ON K2M 2V8, Canada
  Telephone: (888)595-8070

1.4. Emergency telephone number
- Emergency number: CARECHEM 24: 1-215-207-0061
  1-866-928-0789 (toll free)
  Canada: 1-800-579-7421 (toll free)
  Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
- GHS US classification:
  - Hazardous to the aquatic environment - Acute Hazard Category 2: H401 - Toxic to aquatic life
  - Hazardous to the aquatic environment - Chronic Hazard Category 3: H412 - Harmful to aquatic life with long lasting effects
- Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements
- GHS US labeling:
  - Hazard statements (GHS US): H401 - Toxic to aquatic life
  - Precautionary statements (GHS US):
    - P273 - Avoid release to the environment.
    - P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards which do not result in classification
- No additional information available

2.4. Unknown acute toxicity (GHS US)
- Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
- Not applicable

3.2. Mixtures
- | Name                  | Product identifier (CAS-No.) | %       | GHS US classification |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7881-52-9</td>
<td>0.25-0.31</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
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<td>STOT SE 3, H335</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400 (M=10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>
Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

First-aid measures after ingestion: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms: Slight eye irritant upon direct contact. Repeated or prolonged contact may cause skin irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Not combustible. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None known.

5.2. Specific hazards arising from the chemical

Fire hazard: Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Use personal protective equipment as required.

Emergency procedures: Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.
Hygiene measures: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities
- Technical measures: Comply with applicable regulations.
- Storage conditions: Keep only in the original container in a cool, well ventilated place away from: acids. Keep container closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Appropriate engineering controls
- Appropriate engineering controls: Provide good ventilation in process area to prevent formation of vapor.
- Environmental exposure controls: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. Individual protection measures/Personal protective equipment
- Personal protective equipment: Avoid all unnecessary exposure.
  - Hand protection:
    Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.
  - Eye protection:
    Not required for normal conditions of use. Wear goggles or safety glasses with side shields if contact with the eyes is possible
  - Skin and body protection:
    Long-sleeved protective clothing
  - Respiratory protection:
    Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment
  - Thermal hazard protection:
    Not required for normal conditions of use.
  - Other information:
    Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
- Physical state: Liquid
- Appearance: Colorless to slightly yellow.
- Color: Colorless to slightly yellow
- Odor: Chlorine
- Odor threshold: No data available
- pH: 9 – 10.5
- Melting point: Not applicable
- Freezing point: No data available
- Boiling point: 212 °F (100 °C)
- Flash point: Not applicable
- Relative evaporation rate (butyl acetate=1): No data available
- Flammability (solid, gas): Not applicable.
**HYPO-CHLOR® 0.25%**

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : 1 – 1.07 (Water = 1)
Solubility : Water: Miscible
Log Pow : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : Not applicable
Explosive properties : Not applicable.
Oxidizing properties : No data available

9.2. Other information
No additional information available

**SECTION 10: Stability and reactivity**

10.1. Reactivity
Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability
Slowly decomposes on contact with air.

10.3. Possibility of hazardous reactions
May produce small amounts of chlorine gas if mixed with incompatible materials.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
May produce small amounts of chlorine gas if mixed with incompatible materials.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral, rat</td>
</tr>
<tr>
<td>LD50 dermal, rabbit</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
pH: 9 – 10.5

Serious eye damage/irritation : Not classified
pH: 9 – 10.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-single exposure</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
</tr>
</tbody>
</table>
### Aspiration hazard:
Not classified

### Viscosity, kinematic:
No data available

### Potential Adverse human health effects and symptoms:
Slight eye irritant upon direct contact. Repeated or prolonged contact may cause skin irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general:
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 fish</strong></td>
</tr>
<tr>
<td><strong>EC50 Daphnia</strong></td>
</tr>
<tr>
<td><strong>LC50 fish 2</strong></td>
</tr>
<tr>
<td><strong>NOEC chronic fish</strong></td>
</tr>
<tr>
<td><strong>NOEC chronic crustacea</strong></td>
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</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
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<tbody>
<tr>
<td><strong>Persistence and degradability</strong></td>
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</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Log Pow</strong></td>
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</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>HYPO-CHLOR® 0.25%</th>
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</thead>
<tbody>
<tr>
<td><strong>Ecology - soil</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Sodium hypochlorite (7681-52-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ecology - soil</strong></td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

Other information:
Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Dispose in a safe manner in accordance with local/national regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

## SECTION 14: Transport information

**Department of Transportation (DOT)**
In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated
SECTION 15: Regulatory information

15.1. US Federal regulations

**HYPO-CHLOR® 0.25%**

This chemical is a pesticide product registered by the United States Environmental Protection Agency (Registration no. 68959-7) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is: WARNING/AVERTISSEMENT/ADVERTENCIA. The pesticide label also includes other important information, including directions for use.

**Sodium hypochlorite (7681-52-9)**

<table>
<thead>
<tr>
<th>Listed on the United States TSCA (Toxic Substances Control Act) inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not subject to reporting requirements of the United States SARA Section 313</td>
</tr>
<tr>
<td>CERCLA RQ 100 lb</td>
</tr>
</tbody>
</table>

15.2. International regulations

**CANADA**

**HYPO-CHLOR® 0.25%**

In Canada, this product is a drug product registered with Health Canada. Canada DIN #02360255.

**Sodium hypochlorite (7681-52-9)**

| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite(7681-52-9)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Revision date : 10/05/2020

Full text of H-phrases:

- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H335: May cause respiratory irritation
- H400: Very toxic to aquatic life
- H401: Toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- H412: Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:
ACGIH (American Conference of Government Industrial Hygienists)
ATE (Acute Toxicity Estimate)
CAS (Chemical Abstracts Service) number
DNEL (Derived No Effect Level)
EC50 (Effective Concentration 50%)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods Code)
IMO (International Maritime Organisation)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
OECD (Organisation for Economic Co-operation and Development)
OSHA (Occupational Safety and Health Administration) (US)
PBT (Persistent, Bioaccumulative and Toxic)
PNEC (Predicted No Effect Concentration)
STEL (Short Term Exposure Limit)
TSCA (Toxic Substances Control Act) (US)
TWA (Time Weighted Average)
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
vPvB (very Persistent and very Bioaccumulative)

NFPA health hazard
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard
: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity
: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

Health
: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability
: 0 Minimal Hazard - Materials that will not burn
Physical
: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed item</th>
<th>Change</th>
<th>Comments</th>
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<tbody>
<tr>
<td>1</td>
<td>Identification</td>
<td>Modified</td>
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<tr>
<td>12.</td>
<td>Ecological information</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Regulatory information</td>
<td>Modified</td>
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SDS US (GHS HazCom 2012)

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