

SAFETY DATA SHEET

Section 1 – Product and Company Identification

Product Name: Sodium Hypochlorite Solution

Product Code: HYPO150

Rowell Chemical Corporation
15 Salt Creek Lane – Suite 205
Hinsdale, IL 60521

Telephone Numbers:
During normal business hours: (630) 920-8833
Transportation emergency call Chemtrec: (800) 424-9300

Product Use: Industrial

It is a violation of federal law to use this product in a manner inconsistent with its labeling
Not recommended for: Household use

Section 2 – Hazards Identification

GHS Ratings:

DANGER



| | | |
|-----------------------------|----|---|
| Corrosive to metals | 1 | Corrosive to metals |
| Skin corrosive | 1B | Destruction of dermal tissue |
| Eye corrosive | 1 | Serious eye damage, Irreversible damage |
| Oxidizing liquid | 3 | May intensify fire, oxidizer |
| Organ toxin single exposure | 3 | Transient target organ effects: Respiratory, Inhalation |
| Aquatic toxicity | C2 | Acute toxicity and lack of rapid degradability |

GHS Hazards

| | |
|-----------|--|
| EUH031 | Contact with acids liberates toxic gas |
| H272 | May intensify fire, oxidizer |
| H314 | Causes severe skin burns and eye damage |
| H335 | May cause respiratory irritation |
| H400+H411 | Very toxic to aquatic life with long lasting effects |

GHS Precautions

| | |
|----------------|---|
| P234 | Only keep in original container |
| P261 | Avoid breathing dust/fume/gas/mist/vapors /spray |
| P264 | Wash hands thoroughly after handling |
| P271 | Use only outdoors or in well-ventilated area |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P310 | Immediately call a Poison Control Center or doctor/physician |
| P321 | Specific treatment (See section 4 or First Aid section of the label) |
| P363 | Wash contaminated clothing before reuse |
| P391 | Collect spillage |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. |

SAFETY DATA SHEET

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 continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P405 Store locked up

P406 Store in a corrosion resistant container with a resistant liner

P403+P233 Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container to appropriate waste site or reclaim in accordance with local and national regulations

Section 3 – Composition/Information on Ingredients

| Hazardous Components | | |
|----------------------|-------------|----------------|
| Chemical Name | Identifiers | % (weight) |
| Sodium Hypochlorite | 7681-52-9 | 12.50 – 15.00% |
| Sodium Hydroxide | 1310-73-2 | 0-5% |

Section 4 – First Aid Measures

Inhalation:

Remove from further exposure. For those providing assistance, avoid exposure of yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while medical assistance is obtained. Call a poison control center or physician for treatment advice.

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and contact medical assistance.

Skin Contact:

Remove all contaminated clothing. Flush skin with water for at least 15 minutes, then wash with soap and water. Contact medical assistance for advice.

Ingestion:

If victim is conscious, give 1-2 glasses of water or milk. Do not give anything to an unconscious victim. DO NOT induce vomiting and seek immediate medical assistance.

Notes to Physician:

Probable mucosal damage may contradict the use of gastric lavage. Corrosive material

SAFETY DATA SHEET

Section 5 – Fire Fighting Measures

Flammable Limits:

Flash Point: Not flammable

UEL: NA LEL: NA

Extinguishing Media:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Unusual Fire or Explosion Hazards:

Decomposes when heated. Decomposition products may cause containers to rupture or explode. May react vigorously with organic materials. Depending on temperature and concentration, decomposition products may cause other hazards. Sodium Chlorate crystals may cause fire or explosion if subjected to friction or impact.

Hazardous Combustion Products:

Hydrogen Chloride, Chlorine (if in contact with metals), Oxygen, Sodium Chlorate

Advice for Firefighters:

If evacuation of personnel is necessary, evacuate to an upwind location. Decontaminate personnel and equipment with water wash-down after fire and smoke exposure. Structural firefighters' protective clothing may only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. Use water spray to cool containers exposed to fire.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures:

As an immediate precautionary measure, isolate spill or leak area. Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental Precautions:

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Small Spills:

Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for later disposal.

Large Spills:

Dike far ahead of liquid spill and prevent entry into waterways, sewers, basements or confined spaces. Neutralize with Sodium Sulfite (1 teaspoon in 2.5 gallons material) or dilute Hydrogen Peroxide (1 cup in 1 gal of water then use on spill). May also neutralize using ¼ teaspoon Ascorbic acid for each gallon of liquid. DO NOT use vinegar or acidic solutions on spill, this will produce dangerous gases.

SAFETY DATA SHEET

Section 7 – Handling and Storage

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes. Keep containers closed when not in use. Do not mix with water without dilution and agitation to prevent potentially violent reaction. Do not mix with acids, ammonia, alcohol, ethers or hydrocarbons.

Storage:

Prevent material from freezing. Store at room temperatures, i.e., 40 to 95°F (4 - 35°C). Store away from direct sunlight and heat to slow normal decomposition. Do not handle or store material near heat, sparks, open flames or other sources of ignition.

Section 8 – Exposure Control and Personal Protection

| Chemical Name/CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|-------------------------------|-------------------------|-------------------------------|---------------------------------|
| Sodium Hypochlorite 7681-52-9 | NA | NA | STEL 2 mg/m ³ (AIHA) |
| Sodium Hydroxide 1310-73-2 | 2 mg/m ³ TWA | 2 mg/m ³ (Ceiling) | NA |

Engineering Controls:

Ensure that eyewashes and safety showers are close to the workstation.

Ventilation Controls:

Provide adequate ventilation to control airborne concentrations below the exposure guidelines.

Administrative Controls:

No Data Available

Personal Protection:

As prescribed in the OSHA Standard for Personal Protective Equipment (29CFR 1910.132), employers must perform a hazard assessment of the workplace to determine the need for proper PPE for each employee.

Eye Protection:

Normal industrial eye protection of safety glasses with side shields/goggles and face shield.

Skin Protection:

Avoid contact with skin. Wear long sleeved protective clothing. Wash hands before breaks and immediately after handling product. Wear chemical resistant gloves and chemical resistant boots.

Respiratory Protection:

If airborne concentration limits are exceeded, an approved respirator must be worn.

Contaminated Equipment:

Decontaminate equipment with a water wash-down.

SAFETY DATA SHEET

Section 9 – Physical and Chemical Properties

| | |
|---|--|
| <p>Density: 1.084 - 1.226 @ 20°C/68°F</p> <p>Freezing Point: -11°F/-24°C for 12.5% NaOCL by wt.</p> <p>Boiling Point: 219°F/104°C for 12.5% NaOCL by wt.</p> <p>Solubility: Complete</p> <p>Evaporation Rate: Not Available</p> <p>Appearance: Clear, yellow liquid</p> <p>Physical State: Liquid</p> <p>pH: Strong Base >12</p> <p>Odor/Odor Threshold: Chlorine/0.9 mg/m³</p> <p>Partition Coefficient (n-octanol/water): Not Available</p> | <p>Viscosity: 2.15 @23°C for 12.5% NaOCL by wt.</p> <p>Melting Point: -11°F/-24°C for 12.5% NaOCL by wt.</p> <p>Vapor Density: 2.6 g/cm³ (21.697 lbs./gal)</p> <p>Vapor Pressure: 12mmHg for 12.5% NaOCL by wt.</p> <p>Flammability: Not Flammable</p> <p>Flash Point: Not Flammable</p> <p>Decomposition Temperature: Not Available</p> <p>Autoignition Temperature: Not Flammable</p> <p>Explosive Limits: Not Explosive</p> |
|---|--|

Section 10 – Stability and Reactivity

Stability:

Solution decomposes slowly. Decomposition rate increases in temperature >40°C/104°F and sunlight.

Incompatibilities:

Avoid contact with strong acids which releases chlorine gas, Nitrogen compounds, Ammonium salts, Methanol or metals.

Hazardous Decomposition Products:

Hydrogen chloride, Chlorine, oxides of Chlorine, oxygen, Sodium Chlorate

Hazardous Polymerization:

Will not occur.

Section 11 – Toxicological Information

Component Toxicity:

| Compound | LD50 Mode, species, level | LD50 Mode, species, level | LC50 Mode, species, level | Other Mode, species, level |
|---------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|
| Sodium Hypochlorite | oral, mouse, 5.81 g/kg | Dermal, rabbit, >20g/kg | NA | NA |
| Sodium Hydroxide | Intraperitoneal, mouse, 40 mg/kg | LDLO, oral, rabbit, 500 mg/kg | NA | NA |

Routes of Entry:

Ingestion, Inhalation, Skin, Eyes

Target Organs:

No Data Found

Effects of Overexposure:

Causes severe skin burns and eye damage. Harmful if swallowed or absorbed through skin. May cause respiratory irritation, coughing, dizziness, nausea, or unconsciousness. Mucosal damage, vomiting.

SAFETY DATA SHEET

Section 12 – Ecological Information
Product Ecotoxicity:

Toxic to aquatic life.

Component Ecotoxicity:

| Component | Ecotoxicity values |
|---------------------|---|
| Sodium Hypochlorite | 96 Hr LC50 Pimephales promelas; 0.06 - 0.11 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas; 4.5 - 7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus; 0.4 - 0.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.28 -1 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.05 - 0.771 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.03 - <0.19 mg/L [semi-static]; 96 Hr LG50 Oncorhynchus mykiss: 0.18 - 0.22 mg/L [static] 48 Hr EC50 Daphnia magna: 0.033 - 0.044 mg/L [Static] |
| Sodium Hydroxide | 100 mg/l, Daphnia, minnows, lethal; 40 - 240 mg/l, Daphnia magna, toxicity threshold; 125 - 1000 mg/l, various insect larvae, lethal; 25 mg/l, 24hr, brook trout, lethal; 70 mg/l, 5hr, fish, crabs, lethal; 90 mg/l, 4.5hr, oysters, lethal, salt water; 180 mg/l, 23hr, oysters, lethal, salt water (Sax 1986). |

Section 13 – Disposal
Product Disposal:

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide, Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Clean the container according to label instructions before final disposal.

Section 14 – Transportation Information

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

US DOT: Hypochlorite Solutions, UN 1791, III, 8, Marine Pollutant

SAFETY DATA SHEET

Section 15 – Regulatory Information

This listing is to highlight federal level regulation of the product. Individual States and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B)

7681-52-9 Sodium hypochlorite

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A)

7681-52-9 Sodium hypochlorite 12.5%

1310-73-2 Sodium Hydroxide 15.0%

US DOT List of Severe Marine Pollutants (172.101 - Appendix B)

- None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):

- None

Sara Section 302 Threshold Planning Quantity.

- None

SARA Section 313, Toxic Chemicals (40 CFR 372.65):

- None

SARA Reportable Quantity.

7681-52-9 Sodium hypochlorite 12.5%

1310-73-2 Sodium Hydroxide 15.0%

Toxic Substances Control Act (TSCA):

All components are listed or exempt from the Toxic Substances Control Act except those listed below.

- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA):

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

Section 16 – Other Information



| CHEMICAL NAME | PERSONAL PROTECTION INDEX | |
|-----------------------|---------------------------|---|
| 3 HEALTH | A | G |
| 0 FLAMMABILITY | B | H |
| 2 INSTABILITY | C | I |
| D PPE | D | J |
| | E | K |
| | F | X Ask your supervisor for special handling instructions. |

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The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by Rowell Chemical Corporation. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of SDS for Sodium Hypochlorite Solution

SAFETY DATA SHEET

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