

### SECTION 1: Identification

#### 1.1. Product identifier

Product name : Sodium Hypochlorite Solution 12%

#### 1.2. Recommended use and restrictions on use

Recommended use : For general purpose cleaning, sanitizing, bleaching and for controlling bacteria, algae and fungal slimes in pool and industrial waters.

#### 1.3. Supplier

RW Consumer Products Ltd  
200 Omand's Creek Blvd  
R2R 1V7 Winnipeg, Manitoba - Canada  
T (204) 786-6873

#### 1.4. Emergency telephone number

Emergency number : CANUTEC (613) 996-6666

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-CA)

Met. Corr. 1 H290  
Skin Corr. 1C H314  
Eye Dam. 1 H318  
STOT SE 3 H335

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) :

Danger

Hazard statements (GHS-CA) :

H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

Precautionary statements (GHS-CA) :

P234 - Keep only in original container  
P260 - Do not breathe dust or mist  
P264 - Wash hands, forearms, and face thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P271 - Use only outdoors or in a well-ventilated area  
P390 - Absorb spillage to prevent material damage  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P310 - Immediately call a POISON CENTER/doctor  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P363 - Wash contaminated clothing before reuse  
P310 - Immediately call a POISON CENTER/doctor  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P310 - Immediately call a POISON CENTER/doctor  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER/doctor  
P405 - Store locked up  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P406 - Store in a corrosion resistant container with a resistant inner liner  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-CA)

Not applicable

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according to the Hazardous Products Regulation (February 11, 2015)

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Sodium hypochlorite	(CAS No) 7681-52-9	12

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
First-aid measures after ingestion	: If swallowed: Rinse mouth. Do not induce vomiting. If conscious (and not in immediate risk of losing consciousness) and capable of swallowing, rinse mouth thoroughly with water and then drink plenty of water to dilute the material in the stomach. Do not give mouth to mouth resuscitation to an unconscious person. Immediately call a poison center or doctor/physician.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause burns.
Symptoms/injuries after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Treat for surrounding material.
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#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Ammonia containing dry extinguishers.
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#### 5.3. Specific hazards arising from the hazardous product

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon, oxygen, toxic chlorine gases.
Explosion hazard	: Explosive decomposition on exposure to temperature rise: release of toxic and corrosive gases/vapours.

#### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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#### 6.2. Methods and materials for containment and cleaning up

For containment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Small spills of sodium hypochlorite solutions can be broken down by covering it with a reducing agent such as sodium thiosulfate, sodium metabisulfite, or a ferrous salt. Absorb spillage to prevent material damage. Scoop up material and place in a disposal container. Provide ventilation.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust, mist. Do not swallow. Use only outdoors or in a well-ventilated area. Avoid the formation of mists in the atmosphere. Never add water to this product. Always add corrosives to water. Never return unused material to original container. Handle and open container with care. When using do not eat, drink or smoke.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
- Additional hazards when processed : May be corrosive to metals.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool, and well-ventilated place. Keep only in the original container in a cool, well-ventilated place. Strong solutions (greater than 10% available chlorine) may slowly give off chlorine during storage, especially when warm (above 18°C). Vent caps may be required to prevent a build-up of pressure that could cause containers to burst.
- Incompatible materials : Amines. Ammonium salts. Phenylacetonitrile. Ammonia. Acids. Metals. Reducing agents. Ethyleneimine. Methanol. Formic acid. Sodium hydroxide.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Sodium Hypochlorite Solution 12%		
ACGIH	ACGIH TWA (ppm)	0.3 ppm (Cl <sub>2</sub> )
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (Cl <sub>2</sub> )
ACGIH	ACGIH STEL (ppm)	1.0 ppm (Cl <sub>2</sub> )
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	2.9 mg/m <sup>3</sup> (Cl <sub>2</sub> )

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc.) below recommended exposure limits.

#### 8.3. Individual protection measures/Personal protective equipment

- Hand protection : Neoprene or nitrile rubber gloves.
- Eye protection : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Maintain levels below Community environmental protection thresholds.
- Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Green
- Odour : Chlorine
- Odour threshold : No data available
- pH : 11.5 - 13
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Relative evaporation rate (ether=1) : No data available
- Melting point : -25 ° C
- Freezing point : -25 ° C
- Boiling point : Unstable over 40 ° C
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not flammable

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Vapour pressure	: 17.5 (Torr) at 20 °C
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: 2.49
Relative density	: 1.165 at 20° C
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Soluble in water (100%)
Partition coefficient n-octanol/water	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal storage conditions. Unstable over 40 °C. May be corrosive to metals.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat. Incompatible materials. Direct sunlight.
Incompatible materials	: Amines. Ammonium salts. Ammonia. Reducing agents. Phenylacetonitrile. Acids. Methanol. Formic acid. Sodium hydroxide. May be corrosive to metals. Copper. Zinc. Nickel. Tin. Manganese. Iron. Aluminium.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon, toxic chlorine gases. Thermal decomposition generates : Corrosive vapours.

## 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.

Sodium Hypochlorite Solution 12%	
LD50 oral rat	> 2000 mg/kg (Calculated acute toxicity estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated acute toxicity estimate)
LC50 inhalation rat	No data available

Sodium hypochlorite (7681-52-9)	
LD50 oral rat	8200 mg/kg
LD50 dermal rabbit	> 10000 mg/kg

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

Sodium hypochlorite (7681-52-9)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause burns.
Symptoms/injuries after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.

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- Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.

### SECTION 12: Ecological information

#### 12.1. Toxicity

- Ecology - general : May cause long-term adverse effects in the aquatic environment.

Sodium hypochlorite (7681-52-9)	
LC50 fish 1	0.06 - 0.11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	4.5 - 7.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.033 - 0.044 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

#### 12.2. Persistence and degradability

Sodium Hypochlorite Solution 12%	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Sodium Hypochlorite Solution 12%	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Sodium hypochlorite rapidly breaks down to salt, water, and oxygen when used as directed. Its residue is safe for septic systems. Sodium hypochlorite may be neutralized with sodium bisulphite, sodium sulphite or dilute hydrogen peroxide.

### SECTION 14: Transport information

#### 14.1. Basic shipping description

In accordance with TDG

#### TDG

- UN-No. (TDG) : UN1791
- Packing group : III
- TDG Primary Hazard Classes : 8
- Transport document description : UN1791 HYPOCHLORITE SOLUTION (more than 7 per cent available chlorine), 8, III
- Proper Shipping Name (TDG) : HYPOCHLORITE SOLUTION  
more than 7 per cent available chlorine

- Hazard labels (TDG) : 8 - Corrosive substances



- Marine pollutant : Yes

#### 14.2. Transport information/DOT

No additional information available

#### 14.3. Air and sea transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

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### 15.2. International regulations

No additional information available.

### SECTION 16: Other information

Date of issue	: 02/21/2017
Revision	: New
Version	: 1.0
Other information	: None.

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