





## SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** 5900, 5901, 5902 - PCS SODIUM HYPOCHLORITE  
**Other means of identification:**  
5900, 5901, 5902
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Bleach  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Initial supplier identifier:**  
Process Cleaning Solutions Ltd.  
2060 Fisher Dr.  
K9J 6X6 Peterborough - Ontario - Canada  
Phone: 705-745-5849 - Fax: 705-745-1239
- 1.4 Emergency phone number:** Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

## SECTION 2: HAZARD IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**WHMIS 2015:**  
Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17 amended by SOR/2022-272)  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Corr. 1: Skin corrosion, Category 1, H314
- 2.2 Label elements:**  
**WHMIS 2015:**  
**Danger**  
  
**Hazard statements:**  
Skin Corr. 1: H314 - Causes severe skin burns and eye damage.  
**Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P264: Wash thoroughly after use.  
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.  
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.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.  
**Substances that contribute to the classification**  
sodium hypochlorite, solution Cl active (20% < Cl < 25%); sodium hydroxide  
**Additional labeling:**  
  
**DANGER**  
CCCR 2001 >> Sub-Category: "Corrosive"  
CORROSIVE. CAUSES BURNS. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear gloves and safety glasses. Use only in a well-ventilated area.  
FIRST AID TREATMENT  
If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. If on clothes, remove clothes. If breathed in, move person to fresh air.  
Contains : sodium hypochlorite, solution Cl active (20% < Cl < 25%); sodium hydroxide.

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## SECTION 2: HAZARD IDENTIFICATION (continued)

### 2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Not relevant

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

### 3.2 Mixtures:

**Chemical description:** Chlorine compound/s

#### Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 497-19-8	<b>sodium carbonate</b> Eye Irrit. 2: H319 - Warning	5 - <10 %
CAS: 7681-52-9	<b>sodium hypochlorite, solution Cl active (20% &lt; Cl &lt; 25%)</b> Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	1 - <5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

### 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Suitable (and unsuitable) extinguishing media:

**Suitable extinguishing media:**

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## SECTION 5: FIRE-FIGHTING MEASURES (continued)

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

### Unsuitable extinguishing media:

Non-applicable

### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

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**SECTION 7: HANDLING AND STORAGE (continued)**

A.- Technical measures for storage

Minimum Temp.: 5 °C  
Maximum Temp.: 30 °C  
Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

**8.2 Appropriate engineering controls:**

A.- Individual protection measures, such as personal protective equipment


As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection


The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.5 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection



Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:**

Volatile organic compounds: 0 % weight  
V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C: Liquid  
Appearance: Transparent  
Colour: Light yellow  
Odour: Chlorine  
Odour threshold: Not relevant \*

**Volatility:**

Boiling point or initial boiling point and boiling range: 100 °C  
Vapour pressure at 20 °C: 2350 Pa  
Vapour pressure at 50 °C: 12381.01 Pa (12.38 kPa)  
Evaporation rate at 20 °C: Not relevant \*

**Product description:**

Density at 20 °C: Not relevant \*  
Relative density at 20 °C: 1.105 - 1.115  
Dynamic viscosity at 20 °C: 1.29 cP  
Kinematic viscosity at 20 °C: 1.2 mm<sup>2</sup>/s  
Kinematic viscosity at 40 °C: Not relevant \*  
Concentration: Not relevant \*  
pH: 11.5 - 12.5  
Relative vapour density at 20 °C: Not relevant \*  
Partition coefficient — n-octanol/water (logarithmic value) 20 °C: Not relevant \*  
Solubility in water at 20 °C: Not relevant \*  
Solubility properties: Not relevant \*  
Decomposition temperature: Not relevant \*  
Melting point/freezing point: Not relevant \*

**Flammability:**

Flash Point: Non Flammable (>93 °C)  
Flammability (solid, gas): Not relevant \*  
Autoignition temperature: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Lower flammability limit: Not relevant \*  
Upper flammability limit: Not relevant \*

**Particle characteristics:**

Median equivalent diameter: Non-applicable

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Not relevant \*  
Oxidising properties: Not relevant \*  
Corrosive to metals: Not relevant \*  
Heat of combustion: Not relevant \*  
Aerosols-total percentage (by mass) of flammable components: Not relevant \*

**Other safety characteristics:**

Surface tension at 20 °C: Not relevant \*  
Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	NH3, Produces toxic gases

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: sodium hypochlorite, solution Cl active (20% < Cl < 25%) (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:
 

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
sodium carbonate CAS: 497-19-8	LD50 oral	2800 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
sodium hypochlorite, solution Cl active (20% < Cl < 25%) CAS: 7681-52-9	LD50 oral	8910 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available  
Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.  
For more information see section 3.

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

**12.1 Ecotoxicity (aquatic and terrestrial, where available):**

**Acute toxicity:**

Identification	Concentration		Species	Genus
	LC50	EC50		
sodium carbonate CAS: 497-19-8	LC50	740 mg/L (96 h)	Gambusia affinis	Fish
	EC50	265 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		

**12.2 Persistence and degradability:**

Not available

**12.3 Bioaccumulative potential:**

Not available

**12.4 Mobility in soil:**

Not available

**12.5 Results of PBT and vPvB assessment:**

Non-applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods:**

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

**Regulations related to waste management:**

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport.

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations specific for the product in question:**

- Domestic Substances List (DSL): *sodium carbonate (497-19-8)* ; *sodium hypochlorite, solution Cl active (20% < Cl < 25%) (7681-52-9)*

- Non-Domestic Substances List (NDSL): Not relevant

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

**Other legislation:**

Canadian Environmental Protection Act, 1999

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

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## SECTION 16: OTHER INFORMATION (continued)

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17), amended by SOR/2020-38 and SOR/2022-272.

### Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.

H314: Causes severe skin burns and eye damage.

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

### WHMIS 2015:

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Met. Corr. 1: H290 - May be corrosive to metals.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

STOT SE 3: H335 - May cause respiratory irritation.

### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

<http://whmis.org/>

### Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET