



# MATERIAL SAFETY DATA SHEET

## SECTION I – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PCS Sodium Hypochlorite Disinfectant /Disinfectant Cleaner (DIN 02313278)  
**Product Code:** 5900, 5901, 5902  
**Product Use:** Disinfectant / Disinfectant Cleaner  
**Manufacturer/Supplier:** PCS – Process Cleaning Solutions  
**Address:** 2060 Fisher Drive  
 Peterborough, ON K9J 8N4  
**Telephone:** 1-877-745-7277

HMIS Hazard Rating		
HEALTH	1	0 – Insignificant
FLAMMABILITY	0	1 – Slight
REACTIVITY	1	2 – Moderate
PERSONAL PROTECTION	B	3 – High
		4 – Extreme

**Emergency Phone: Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)**

## SECTION II – INFORMATION ON HAZARDOUS INGREDIENTS

Ingredients	CAS#	WT%	ACGIH-TLV	LD <sub>50</sub>	LC <sub>50</sub>
Sodium carbonate	497-19-8	5-10	Not applicable	4,090 mg/kg (Oral, Rat)	2,300 mg/m <sup>3</sup> (Inhal., Rat)
Sodium hypochlorite	7681-52-9	1-5	Not applicable	8,910 mg/kg (Oral, Rat)	>10,000 mg/m <sup>3</sup> (Inhal., Rat)

## SECTION III – HAZARDS IDENTIFICATION

**Route of Entry:** Eye, skin contact, inhalation, ingestion.

**Effects of Acute Exposure:**

**Eye Contact:** May cause irritation.

**Skin Contact:** None expected.

**Inhalation:** May cause mucous membrane irritation.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Effects of Chronic Exposure:** See Section 11.

## SECTION IV – FIRST AID MEASURES

**Eye Contact:** Flush with water for 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Flush with water for 15 minutes. Seek medical attention if irritation develops.

**Inhalation:** Remove to fresh air and take deep, slow breaths. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Seek medical attention if symptoms persist. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

## SECTION V – FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Flash Point:** (deg C, TCC): None

**LEL:** None

**UEL:** None

**Auto-Ignition Temperature:** None

**Hazardous Combustion Products:** Chlorine, hydrogen chloride and oxides of carbon and sodium.

**Means of Extinction:** Does not burn but oxidizing materials increase the burning rate of combustible materials. Use extinguishing agents suitable for the surrounding fire.

**Special Fire Hazards:** Firefighters should wear self-contained breathing apparatus.

**Explosion Data – Sensitivity to Mechanical Impact:** None.

**Explosion Data – Sensitivity to Static Discharge:** None.

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### SECTION VI – ACCIDENTAL RELEASE MEASURES

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**Leak and Spill Procedures:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Wash surface with plenty of water. For large quantities, dispose of in accordance with local, state/provincial and federal laws.

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### SECTION VII – HANDLING AND STORAGE

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**Storage Requirements:** KEEP OUT OF REACH OF CHILDREN. Store in closed container. Store in a cool, dry, well-ventilated area away from incompatible materials and direct sunlight. Store away from heat.

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### SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

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**Gloves:** Chemical-resistant gloves.

**Eye protection:** Safety glasses.

**Respiratory protection:** Not normally required under normal operating conditions.

**Other protective equipment:** As required by employer code.

**Engineering Controls:** General ventilation normally adequate.

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### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance/Odor:</b> Clear, colorless; chlorine.	<b>Physical State:</b> Liquid	
<b>Boiling Point (°C):</b> >100	<b>Freezing Point (°C):</b> NE	<b>% Volatile (Wt%):</b> >90
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.11	<b>VOC (g/L):</b> 0	<b>pH (as supplied):</b> 12.4
<b>Evaporation Rate (Water=1):</b> Similar		<b>Viscosity:</b> Water thin.
<b>Coefficient of Water/Oil Distribution:</b> NE		<b>Solubility in Water:</b> Soluble
<b>Vapor Pressure:</b> NA	<b>Vapor Density:</b> NA	<b>Odor Threshold:</b> NE

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### SECTION X – STABILITY AND REACTIVITY

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**Conditions for Chemical Instability:** Unstable. Sodium hypochlorite solutions decompose slowly. Decomposition is accelerated by heat (temperatures above 40°C) and light. Some metals accelerate the decomposition of sodium hypochlorite.

**Incompatibility Materials:** Strong acids, amines, reducing agents, metals, ethylene glycol, methanol, ammonia and ammonium salts.

**Conditions of reactivity:** NE

**Hazardous Decomposition Products:** Chlorine, hydrogen chloride and oxides of carbon and sodium.

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### SECTION XI – TOXICOLOGICAL INFORMATION

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**LD<sub>50</sub> (Calculated):** >6,500 mg/kg (Oral, Rat).

This product may cause irritation to the eyes upon prolonged contact.

**Conditions Aggravated by Exposure:** None known.

**Sensitization to Product:** None known.

**Carcinogenicity:** No ingredients listed by IARC or NTP.

**Teratogenicity, Mutagenicity, Reproductive Effects:** None known.

**Toxicologically Synergistic Products:** None known.

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### SECTION XII – ECOLOGICAL INFORMATION

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**Biodegradability:** Does not contain organic material.

**Aquatic Acute Toxicity:** Not established.

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### SECTION XIII – DISPOSAL CONSIDERATIONS

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Dispose of in accordance with local state/provincial and federal regulations.

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### SECTION XIV - TRANSPORTATION

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**Special Shipping Information:** Keep from freezing.

**T.D.G. Classification:** Not regulated under TDG.

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### SECTION XV – REGULATORY INFORMATION

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**Occupational Health and Safety Regulations:**

**WHMIS Class:** Product is registered under the Food and Drug Act.

**WHMIS:** MSDS prepared pursuant to the Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Product Act).

**Environmental Regulatory Lists:**

**National Pollutant Release Inventory** – None of the ingredients are listed.

**Canadian Domestic Substance List (DSL)** – All the ingredients are registered on the DSL.

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### SECTION XVI – OTHER INFORMATION

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**Date:** September 30, 2014

**Prepared by:** Technical Services Group

**Telephone:** (705) 740-2880

NA: Not Available

NE: Not Established

#### Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages, which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400), or CSST in Montreal, Quebec (514-873-3990).