

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: PCS Process Oxidizing Cleaner Concentrate
Product Code: 5903
Product Use: 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: CANUTEC (613) 996-6666

SECTION II – INFORMATION ON HAZARDOUS INGREDIENTS

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

SECTION VI – ACCIDENTAL RELEASE MEASURES

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.

SECTION VII – HANDLING AND STORAGE

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.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Clear, colorless; chlorine.

Physical State: Liquid

Boiling Point (°C): >100

Freezing Point (°C): NE

% Volatile (Wt%): >90

Specific Gravity (H₂O=1): 1.11

VOC (g/L): 0

pH (as supplied): 12.4

Evaporation Rate (Water=1): Similar

Viscosity: Water thin.

Coefficient of Water/Oil Distribution: NE

Solubility in Water: Soluble

Vapor Pressure: NA

Vapor Density: NA

Odor Threshold: NE

SECTION X – STABILITY AND REACTIVITY

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.

SECTION XI – TOXICOLOGICAL INFORMATION

LD₅₀ (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.

SECTION XII – ECOLOGICAL INFORMATION

Biodegradability: Does not contain organic material.

Aquatic Acute Toxicity: Not established.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

SECTION XIV - TRANSPORTATION

Special Shipping Information: Keep from freezing.

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

SECTION XV – REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Class: D2B.

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Product Act).

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of these ingredients are listed.

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302 – None of these ingredients are listed.

RCRA 40CFR 261 (SUBPART D) – None of these ingredients are listed.

SARA 311/312 EPA HAZARD CATEGORIES:

Immediate (Acute) Health.

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

Toxic Substances Control Act (TSCA) – All the ingredients are registered on the Chemical Substance Inventory.

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

SECTION XVI – OTHER INFORMATION

Date: November 20, 2013

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).