

MATERIAL SAFETY DATA SHEET**SECTION 1 — PRODUCT IDENTIFICATION****Product identifier:** 0098 – Precision A.T. Low Temp Machine Sanitizer**WHMIS Classification:** D2B, E**Product use:** Sanitizer**Product Code Number:** 63894**MSDS Number:** 0098**Supplier name and address:**

Corporate Chemicals

7 Neilson St.

St. Catharines, ON L2M 5V9

(905) 682-8888

Manufacturer's name and address:

Refer to Supplier

Emergency Telephone #: CANUTEC (613) 996-6666**SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>LD₅₀</u> <u>mg/kg</u> <u>oral/mouse</u>	<u>LD₅₀</u> <u>mg/kg</u> <u>skin/rabbit</u>	<u>LC₅₀</u> <u>ppm</u> <u>inh/rat</u>
Sodium hypochlorite	7681-52-9	10-20	5800	N/Av	N/Av

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Routes of entry: Inhalation, ingestion, skin and eye contact.**Signs and symptoms of short-term (acute) exposure:***Inhalation:* Corrosive. May cause irritation of the nose and upper respiratory tract, headache and coughing.*Skin contact:* Corrosive. Can cause severe local irritation, burns and blisters. Prolonged or repeated contact with diluted solutions may bleach skin or cause dermatitis.*Eye contact:* Very corrosive. Can cause irritation and severe damage, potentially resulting in damage if not treated promptly.*Ingestion:* Corrosive. Causes burning in mouth and throat, severe pain, vomiting, diarrhea.**Effects of long-term (chronic) exposure:** Prolonged skin exposure may trigger dermatitis.**Other important hazards:** May be corrosive to metals.**SECTION 4 — FIRST AID MEASURES****Inhalation:** Remove victim to fresh air. Give artificial respiration only if breathing has stopped. Get medical attention immediately.**Skin contact:** Remove contaminated clothing. Flush affected area with water for at least 20 minutes. Obtain medical attention.**Eye contact:** Flush eyes immediately with large amounts of water for at least 30 minutes, holding lids apart to ensure complete irrigation of the eye. Get immediate medical attention.**Ingestion:** DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth out and give ½ to one glass of water to dilute material. Obtain immediate medical attention.**SECTION 5 — FIRE FIGHTING MEASURES****Fire hazards/conditions of flammability:** Not flammable.**Flash point (Method):** Not applicable.

Lower flammable limit (% by volume): n/ap

Upper flammable limit (% by volume): n/ap

Explosion data: *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* Not sensitive.

Oxidizing properties: None.

Auto-ignition temperature: Not available

Suitable extinguishing media: Water, dry chemicals and carbon dioxide can be used on fires in which this product is involved, as appropriate.

Special fire-fighting procedures/equipment: Fire-fighters should wear full protective equipment, including a self-contained breathing apparatus, should be worn. Remove storage vessels from fire zone if possible. Use water spray to cool containers to avoid pressure build-up.

Hazardous combustion products: If exposed to extreme temperatures, may give off gases including chlorine and other chloride gases, oxygen and disodium oxide.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment as described in Section 8. Ventilate area before entering.

Environmental precautions: Avoid discharging spilled material into waterways, such as sewers, streams or lakes.

Spill response/Cleanup: Restrict access to area until completion of cleanup. Ventilate the area. Contain leak or spill. Absorb liquid using an inert absorbent such as sand or vermiculite. Collect the absorbent and place into containers for disposal. For recover, pump spilled material into polyethylene containers.

Prohibited materials: Avoid using aluminium or other easily corroded material to handle spills.

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Maintain adequate ventilation. Wear protective equipment when handling. Protect containers against physical damage.

Storage requirements: Store below 29°C and above freezing point. Store in a cool, dry, well-ventilated area, away from incompatibles and direct sunlight. Long-term storage is impossible without decomposition. Use polyethylene containers.

Special packaging materials: Polyethylene plastic containers recommended.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Local exhaust recommended to reduce exposure.

Respiratory protection: Wear a NIOSH/MSHA approved air-purifying respirator equipped with chlorine cartridges when vapours reach high levels.

Protective gloves: Rubber or neoprene gloves are recommended if skin contact might occur.

Eye protection: Chemical goggles recommended. Face shield also recommended for handling large amounts.

Other protective equipment: Eyewash fountains and safety showers should be installed in storage and handling areas.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, colour and odour: Clear, greenish-yellow aqueous solution, with strong chlorine odour.

Odour threshold: Not available

pH: 11.5 – 13.0

Boiling point: Slowly decomposes at 40°C to NaCl and NaClO₃ **Melting/freezing point:** Not available

Vapour pressure: 17.5 mm Hg @ 25°C

Solubility in water: Miscible in all proportions in water

Coefficient of oil/water distribution: Not available

Specific gravity or relative density (water = 1): 1.15

Vapour density: Not applicable

Volatile organic compounds (VOC's): Not available

Evaporation rate: Not available

Percent Volatile by Weight: Not available

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Normally stable.

Conditions to avoid: Unstable above 40°C, when exposed to sunlight or in contact with metals.

Materials to avoid: Acids, ammonia and ammonia-based cleaners, oxidizable materials, urea, nickel, copper, tin, manganese, iron and most metals.

Hazardous decomposition products: Will release chlorine gas when in contact with acids or heated; oxygen when in contact with metals.

SECTION 11 — TOXICOLOGICAL INFORMATION

LD₅₀: See Section 2.

LC₅₀: See Section 2.

Exposure limits: ACGIH-TWA: Not established

Carcinogenicity: Not listed by IARC, ACGIH, NTP, and OSHA as a carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: No evidence of teratogenic or reproductive effects. One animal test positive for mutagenic effects.

Sensitization to material: Not reported.

Conditions aggravated by exposure: Skin and respiratory conditions may be aggravated by chronic exposure.

Synergistic materials: None known.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental effects: Product is corrosive. Since hypochlorite solutions are often used as disinfectants and biocides, product is expected to have some effect on aquatic life at high concentrations.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Reuse if possible. Do not discharge waste material into the environment.

Methods of disposal: Follow local, provincial or state, and federal regulations.

SECTION 14 — TRANSPORTATION INFORMATION

Shipping description: TDG – HYPOCHLORITE SOLUTION, Class 8, UN1791, Packing Group III.

Please note: This shipping description is of a general nature only. It does not consider package sizes, modes of transport and other specific circumstances. Appropriate regulations should be referenced, and handling for transportation of dangerous goods/hazardous materials should be performed by trained personnel only.

SECTION 15 — REGULATORY INFORMATION

WHMIS information: D2B, E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

SECTION 16 — OTHER INFORMATION

Prepared for: Corporate Chemicals

Telephone number: (905) 682-8888

Preparation date: January 31, 2012

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2003.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from raw materials suppliers.

n/ap Not applicable

n/av Not available