



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

**Product Name:** Sodium Hypochlorite Solution

**Trade Name:** Flochem-12

**WHMIS CLASS:** C, E

**Effective Date:** March 26, 2008

**Product Use:** Disinfection, odour control, laundry, water, sewage and industrial waste treatment.

**Supplier Name & Address:**

**FLOCHEM LTD.**

R.R. #7 Guelph, ON, N1H 6J4

**Emergency Phone Number**

**877-378-7745**

### SECTION 2 - COMPOSITION/INFORMATION INGREDIENTS:

| <u>Ingredients</u>  | <u>CAS#</u> | <u>Wt%</u> | <u>LC50</u>   | <u>LD50</u>       |
|---------------------|-------------|------------|---------------|-------------------|
| Sodium Hypochlorite | 7681-52-9   | 7-13       | Not available | Oral rat: 3-5g/kg |

### SECTION 3 - HAZARDS IDENTIFICATION:

**Route of Entry:** Eye, Skin, Inhalation, Ingestion

**Irritancy:** Moderate to severe. Will cause irritation and pain to skin and eyes

*(See Section 11 for Toxicological Information)*

### SECTION 4 - FIRST AID:

**Eyes:** Immediately flush with running water, holding eyelid open for a minimum of 15 minutes. Call a physician if irritation persists.

**Skin:** Immediately flush with running water for a minimum of 15 minutes. Call a physician if irritation develops.

**Inhalation:** If inhaled, remove victim to fresh air. If symptoms persist, call a physician.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, and then drink one glass of water. Call a physician immediately. Never give anything by mouth if victim is unconscious or rapidly losing consciousness or is convulsing.

### SECTION 5 - FIRE FIGHTING MEASURES:

**Flammability:** Not flammable **Flash Point deg. (C, TCC):** None **LEL:** None **UEL:** None

**Hazardous Combustion Products:** None. **Means of Extinction:** If involved in fire use water, carbon dioxide

**Special Fire Hazards:** Use water to cool containers exposed to fire.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES:

**Leak and Spill Procedure:** Leaking product may be transferred to clean plastic containers. Dilute small spills with water and add sodium sulfite or sodium metabisulphite. For large spills contact the supplier. Vapours may be suppressed by use of a water fog; run-off must be captured for treatment and disposal.

## SECTION 7 - HANDLING & STORAGE:

**Storage Requirements:** Use polyethylene, polypropylene, FRP or PVC containers. Store product at -10 to 30°C and away from sunlight or high temperatures. Keep from freezing.

## SECTION 8 - EXPOSURE CONTROLS:

**Personal Protective Equipment:** Wear chemical gloves, chemical goggles/face shield and rubber boots. When handling product, it is preferred that you wear a chemical resistant jacket. Have safety shower and eye wash fountain available close by work station.

**Engineering Controls:** General ventilation is adequate. Ventilate storage tank outside.

## SECTION 9 - PHYSICAL PROPERTIES:

**Boiling Point:** Decomposes on heating

**Vapour Pressure (mm Hg):** 22@20(°C)

**Vapour Density (Air =1):** Not Available

**Percent Volatile (Wt%):** 80

**Physical State:** Liquid

**Odour:** Chlorine like

**Appearance:** Greenish-yellow solution

**Specific Gravity (H2O=1):** 1.168

**Freezing Point(°C):** -20°C

**Evaporation Rate (BuAc=1):** Not Available

**pH:** 12-14

**Solubility in Water:** Miscible

**Viscosity @ 20°C:** Water thin

## SECTION 10 - STABILITY & REACTIVITY:

**Conditions for Chemical Instability:** High temperature, sunlight.

**Hazardous Decomposition Products:** Chlorine Gas.

**Incompatible Materials:** Metals, (iron, copper) reducing and oxidizing agents, solvents, acids, nitrogen compounds and most organic substances.

## SECTION 11 - TOXICOLOGICAL INFORMATION:

**Route of Entry:** Eye, Skin, Inhalation, Ingestion

**Warning:**

**Causes respiratory tract irritation, eye and skin burns and may cause permanent lung damage.**

**Effects of Acute Exposure:** Will cause moderate irritation to skin and severe irritation and pain to eyes. Fumes may irritate mucous membranes and cause coughing or pulmonary edema. If ingested, product will cause membrane irritation and pain and inflammation to digestive tract. Could cause vomiting and shock.

**Irritancy:** Moderate to severe

**Carcinogenicity:** Not by IARC conclusions. **Synergistic Materials:** None

**Teratogenicity, Mutagenicity, Reproductive Effects:** Not Established

## SECTION 12 - ECOLOGICAL CONSIDERATIONS:

Harmful to aquatic life. Aquatic toxicity: approximately 0.6 mg/l (bluegill); approximately 1 mg/l (daphnia, 48 hours).

## SECTION 13- DISPOSAL CONSIDERATIONS:

**Waste Disposal:** In accordance with Federal, Provincial or local government requirements.

## SECTION 14 - TRANSPORT INFORMATION:

**Proper Shipping Name:** Hypochlorite Solution  
TDG Classification, Class 8, UN1791, Packaging Group III

## SECTION 15 - REGULATORY INFORMATION:

- WHMIS Classification: Class C, Class E.
- On the DSL.

## SECTION 16 - OTHER INFORMATION:

### **Disclaimer:**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO THE BEST OF OUR KNOWLEDGE, TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF.

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