



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

Product Name: Sodium Hypochlorite Solution

Trade Name: Flochem-12B

WHMIS CLASS: C, E

Effective Date: March 7, 2011

Product Use: Disinfection, odour control, laundry, water, sewage and industrial waste treatment, hard surface cleaner and biocide.

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:

Warning: Oxidizer, Reactive, Corrosive

Primary Routes of Entry: Eye, Skin Absorption, 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 plenty of running water, holding eyelid open for a minimum of 15 minutes. Call a physician if irritation persists.

Skin: Remove contaminated clothing and 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.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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, or carbon dioxide. Do not use Mono Ammonium Phosphate (MAP) type extinguishers directly on this product.

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

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Leak and Spill Procedure: Restrict access to the affected area, use Personal Protective Equipment, keep people away and upwind of the spill or leak. Prevent product from entering waterways. 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. Will form hazardous reaction products.

SECTION 7 - HANDLING & STORAGE:

Storage Requirements: Personnel using this product should be trained on its hazards. Store product at -10 to 30°C and away from sunlight or high temperatures in a cool, shaded area. Keep from freezing. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS:

Personal Protective Equipment: Wear chemical gloves, chemical goggles/face shield and neoprene boots. Have safety shower and eye wash fountain available close by work station.
Engineering Controls: Use local exhaust ventilation to maintain levels below the PEL. 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, pungent

Specific Gravity (H2O=1): 1.168
Freezing Point(°C): -20°C
Appearance: Greenish-yellow solution
pH: 12-14
Solubility in Water: Miscible
Viscosity @ 20°C: Water thin

SECTION 10 - STABILITY & REACTIVITY:

Conditions for Chemical Instability: High temperature, sunlight. May develop Chlorine if mixed with Acidic solutions.
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:

Primary 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). LC50 Pimephales promelas (fathead minnow): 1.40 mg/L, exposure time: 96 hour.

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, Corrosive Material
- On the DSL and TSCA Inventory.

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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