

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION

**Trade name :** 12% bleach

**Use :** water purification, bleaching agent and disinfectant

**Supplier :** LES SAVONS EVY INC  
3460, 39 ième avenue  
Montréal, Qc, H1A 3V1  
Phone: 514-642-9920

**WHMIS :** E D-2B

**TDG :** Shipping class/division: corrosive 8(9.2)  
Product identification No (pin); UN1791  
Packing group: III

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CONCENTRATION %	CAS NUMBER
Sodium hypochlorite	12-14	7681-52-9

## SECTION 3 - PHYSICAL DATA

**Appearance and odour:** clear, greenish-yellow aqueous solution with a strong chlorine odour.

<b>Vapour pressure :</b> 17.5 mmHg at 20°C	<b>Vapour density: (air=1) :</b> no data	<b>Evaporation rate :</b> no data	<b>Boiling point (°C) :</b> slowly decomposes at 40°C to NaCl and Na ClO <sub>3</sub>	<b>Melting/Freezing point (°C):</b> -25°C (- 12°F) for a 12% solution.
<b>Ph :</b> 11.5 - 13.0	<b>Specific gravity:</b> ≈ 1.165g/ml	<b>Solubility (water): (20°C) :</b> miscible in all proportion in water		

## SECTION 4 - FIRE AND EXPLOSION

**Fire extinguishing media:** use appropriate media to extinguish surrounding fire

**Fire fighting procedures:** Full protection 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

<b>Flash point :</b> non-flammable	<b>Max. flammable (% volume):</b> not applicable	<b>Min. flammable(% volume) :</b> not applicable
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**Auto-ignition temperature (°C) :** not applicable

## SECTION 5 - REACTIVITY DATA

**Stability:**

Under normal conditions: Unstable above 40°C, when exposed to sunlight or in contact with metals.

Under fire conditions: unstable

**Hazardous polymerization:** will not occur

**Conditions to avoid:** temperatures above 40°C

**Materials to avoid:** Acids, ammonia, oxidizable materials, urea, nickel, copper, manganese, iron, most metals

**Hazardous decomposition or combustion products :** Chlorine gas when in contact with acids; oxygen when in contact with metals

Product: 12% bleach

## SECTION 6 - TOXICOLOGICAL PROPERTIES

### Effects of exposure when:

**Inhaled:** Corrosive! May cause irritation of the nose and upper respiratory tract, headache and coughing.

**In contact with the skin:** Corrosive! Can cause severe local irritation, burns and blister. Prolonged or repeated contact with diluted solutions may bleach skin or cause dermatitis.

**In contact with the eyes:** Very corrosive! Can cause irritation and severe damages resulting in blindness.

**Ingestion:** Corrosive! Burning in mouth and throat. Severe pain, vomiting, diarrhea.

**Synergistic materials :** none known

**Carcinogenicity:** the ingredients of this product are not listed as carcinogens.

**Teratogenicity :** no information is available

**Reproductive effects :** no information is available

**DL50 (oral, rat):** =8910 mg/Kg

**CL50 (inhalation, rat):** > 10.500 mg/m<sup>3</sup>/H

## SECTION 7 - PREVENTIVE MEASURES

### Individual protection equipment :

**Engineering controls:** Local exhaust ventilation.

**Respiratory protection:** NIOSH/MSHA approved air-purifying respirator equipped with chlorine cartridges when necessary

**Skin protection:** use rubber gloves and apron. Rubber boots if necessary also.

**Eyes protection:** Use chemical safety goggles when there is potential for eye contact

**Other personal protective equipment:** Safety showers and eyewash fountains should be installed in storage and handling areas.

**Handling procedures and equipment:** Protect containers against physical damage.

**Storage temperature (°C):** Below 29°C and above freezing point.

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

**Leak and spill procedures:** Ventilate area. Stop and contain leak or spill. Absorb using an inert material (sand, ashes, etc.), collect and dispose. For recovery, pump into polyethylene containers.

**Waste disposal methods:** consult federal, provincial, state and local regulations on chemical waste disposal.

## SECTION 8 - FIRST AID MEASURES

### First aid: warning corrosive!

**Inhalation:** Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention immediately.

**Skin contact:** remove contaminated clothing. Flush affected area with water for at least 20 minutes. Obtain medical attention.

**Eyes contact:** Flush immediately eyes with running water for at least 30 minutes holding eyelids open.

**Ingestion:** If victim is alert and not convulsing, rinse out mouth and give ½ to 1 glass of water to dilute material. DO NOT induce vomiting.

## SECTION 9 - PREPARATION DATE MSDS

**Prepared by :**  
Technical department

**Phone number :**  
514-642-9920

**Date :**  
2011/12/12

The information and opinions expressed herein are those of qualified chemist within. We believe that current information as of date of this MSDS. Since the use of this information and these opinions and the conditions of use of the product are beyond the control. It is user's obligation to determine the conditions of safe use and disposal of the product.