



The Clorox Company of Canada, Ltd.  
150 Biscayne Crescent  
Brampton, Ontario  
L6W 4V3

Material Safety  
Data Sheet

### SECTION 1 - PRODUCT IDENTIFICATION AND USE

<b>PRODUCT NAME:</b> JAVEX®-12 SODIUM HYPOCHLORITE – PCP Reg. No. 25506	<b>PRODUCT IDENTIFICATION NUMBER:</b> Not applicable.
<b>PRODUCT USE:</b> Chlorinating liquid for controlling bacteria and algae	
<b>MANUFACTURER</b>	<b>SUPPLIER</b>
The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3  EMERGENCY PHONENO.: 1-800-446-1014	The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3  EMERGENCY PHONENO.: 1-800-446-1014

### SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredient	% (w/w)	CAS Number	LD50 of Material (Specify Species & Route)	LC50 of Material (Specify Species)
Sodium hypochlorite	7 - 13	7681-52-9	13 g/kg (5.25% NaOCl, rat, oral)	Not available.

### SECTION 3 - PHYSICAL DATA

<b>Physical State:</b> Liquid	<b>Odour &amp; Appearance:</b> Clear, lime-yellow, thin liquid with characteristic bleach odour.	<b>Odour Threshold:</b> Not available.	<b>Specific Gravity:</b> 1.17 at 20°C
<b>Vapour Pressure:</b> Not available.	<b>Vapour Density:</b> N. Av.	<b>Evaporation Rate:</b> N. Av.	<b>Boiling Point:</b> N. Av.
<b>% Volatile (by volume):</b> 77 - 82	<b>Solubility in Water:</b> Complete.	<b>pH:</b> 12.5 - 13	<b>Freezing Point:</b> N. Av.
<b>Coeff. of Water/Oil Dist:</b> Not available.			

### SECTION 4 - FIRE AND EXPLOSION DATA

<b>Flammability:</b> Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> If yes, under which conditions?		
<b>Means of Extinction:</b>	Not flammable.	
<b>Special Procedures:</b>	In a fire, cool containers to prevent rupture and release of sodium chlorate.	
<b>Flashpoint &amp; Method:</b> Not applicable.	<b>Upper Flammable Limit (% by volume):</b> Not applicable.	<b>Lower Flammable Limit (% by volume):</b> Not applicable.
<b>Autoignition Temperature:</b> N. Ap.	<b>Hazardous Combustion Products:</b> Not applicable.	
<b>Explosion Data - Sensitivity to Impact:</b> Not applicable.		<b>Explosion Data - Sensitivity to Static Discharge:</b> Not applicable.

### SECTION 5 - REACTIVITY DATA

<b>Chemical Stability:</b> Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If no, under which conditions?	
<b>Incompatibility with other substances:</b> Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If so, which ones?	Reacts with other chemicals such as toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds. Avoid contact with metals, reducing agents, and other oxidizing agents.
<b>Reactivity, if any, and under what conditions?</b>	See above.
<b>Hazardous decomposition products?</b>	Exposure to extreme heat may release sodium chlorate.

## SECTION 6 - TOXICOLOGICAL PROPERTIES

<b>Route of Entry?</b> Skin Contact: <u> X </u> Skin Absorption: <u>    </u> Eye Contact: <u> X </u> Inhalation Acute: <u> X </u> Inhalation Chronic: <u>    </u> Ingestion: <u> X </u>			
<b>Effects of Acute Exposure to Material:</b> May cause severe irritation or damage (burns) to eyes, skin, gastrointestinal tract, and respiratory tract. May cause permanent eye damage or blindness. Harmful if swallowed. Inhalation may cause pulmonary edema. Exposure to high concentrations of vapour or mist may aggravate the following medical conditions: heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis, or obstructive lung disease.			
<b>Effects of Chronic Exposure to Material:</b> See Sensitization section below. Clinical testing with a similar product on intact skin showed no induction of sensitization in test subjects.			
<b>Exposure Limits (TLV, ACGH):</b> Not applicable.	<b>Irritancy of Material:</b> Corrosive to eyes. Severely irritating to skin, nose, lungs, throat, and gastrointestinal tract.	<b>Sensitization Property of Material:</b> Some clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage occurs during exposure.	<b>Carcinogenicity of Material:</b> Not a carcinogen.
<b>Teratogenicity/Embryotoxicity:</b> Not teratogenic or embryotoxic.	<b>Reproductive Toxicity:</b> Not a reproductive toxicant.	<b>Mutagenicity:</b> Not mutagenic.	<b>Synergistic Materials:</b> None known.

## SECTION 7 - PREVENTATIVE MEASURES

<b>Personal Protective Equipment:</b>		
<b>Gloves (specify):</b> Wear nitrile, neoprene, butyl rubber, or other protective gloves.	<b>Respirator (specify):</b> In situations where high concentrations of vapour or mist may be generated, a NIOSH-approved respirator is advised.	<b>Eye (specify):</b> Wear safety goggles with a face shield.
<b>Footwear (specify):</b> Not applicable.	<b>Clothing (specify):</b> Wear long pants, a long-sleeve shirt, and (preferably) a plastic jacket or apron.	<b>Other (specify):</b> Not applicable.
<b>Engineering Controls (specify, e.g. ventilation, enclosed process):</b> Use general ventilation to minimize exposure to product vapour or mist.		
<b>Leak and Spill Procedure:</b> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. For spills of multiple products, responders should evaluate the MSDS's of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.		
<b>Waste Disposal:</b> Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.		
<b>Handling Procedures &amp; Equipment:</b> Wash hands with soap and water after use. Do not reuse empty container. Rinse container and replace cap before discarding.		
<b>Storage Requirements:</b> Keep container tightly capped, and store upright in a cool place (< 30°C) away from heat and sunlight.		
<b>Special Shipping Information:</b> For non-bulk containers ≤ 5 L - Limited quantity exception per TDG Regulations Part 1.17(2). For bulk containers - Hypochlorite solution, Class 8, PG III, UN1791.		

## SECTION 8 - FIRST AID MEASURES

<b>Eye Contact:</b> If splashed in eyes, flush thoroughly with water for 15 minutes. Call a Poison Control Centre or doctor immediately for treatment advice.
<b>Skin Contact:</b> If splashed on skin, take off contaminated clothing and flush skin thoroughly with water for 15 minutes. If irritation persists, call a doctor.
<b>Ingestion:</b> If swallowed, call a poison control centre or doctor immediately. Rinse mouth, and then drink one glass of milk or warm water if able to swallow. Do not induce vomiting. Do not give anything by mouth to an unconscious person.
<b>Inhalation:</b> Remove to fresh air. If breathing problems develop, call a Poison Control Centre or doctor. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible.

## SECTION 9 - PREPARATION DATE OF MSDS

<b>Prepared by (group, department, etc.)</b> Clorox Services Company	<b>Phone Number:</b> 1-925-425-6100	<b>Date:</b> March 23, 2007	V1
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N. Av. = Not available.

N. Ap. = Not applicable.

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