



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

Material Safety
Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: CLOROX® COMMERCIAL SOLUTIONS™ JAVEX® 12 BLEACH BY CLOROX - PCP REG. NO. 29183		PRODUCT IDENTIFICATION NUMBER: Not applicable.
PRODUCT USE: Bleach for industrial, institutional, swimming pool, and food processing plant use		
MANUFACTURER		SUPPLIER
The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3 EMERGENCY PHONE NO.: 1-800-446-1014		The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3 EMERGENCY PHONE NO.: 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

Physical State: Liquid	Odour & Appearance: Clear, lime-yellow, thin liquid with characteristic bleach odour.	Odour Threshold: Not available.	Specific Gravity: ≈1.17 at 20°C
Vapour Pressure: Not available.	Vapour Density: N. Av.	Evaporation Rate: N. Av.	Boiling Point: N. Av.
% Volatile (by volume): 77 - 82	Solubility in Water: Complete.	pH: 11.5 - 13	Freezing Point: N. Av.
		Coeff. of Water/Oil Dist.: Not available.	

SECTION 4 - FIRE AND EXPLOSION DATA

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

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes: <u>X</u> No: ___ If no, under which conditions?	
Incompatibility with other substances: Yes: <u>X</u> No: ___ 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.
Reactivity, if any, and under what conditions?	See above.
Hazardous decomposition products?	Exposure to extreme heat may release sodium chlorate.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry?			
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>			
Effects of Acute Exposure to Material: 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.			
Effects of Chronic Exposure to Material: See Sensitization section below. Clinical testing with a similar product on intact skin showed no induction of sensitization in test subjects.			
Exposure Limits (TLV, ACGIH): Not applicable.	Irritancy of Material: Corrosive to eyes. Severely irritating to skin, nose, lungs, throat, and gastrointestinal tract.	Sensitization Property of Material: Some clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage occurs during exposure.	Carcinogenicity of Material: Not a carcinogen.
Teratogenicity/Embryotoxicity: Not teratogenic or embryotoxic.	Reproductive Toxicity: Not a reproductive toxicant.	Mutagenicity: Not mutagenic.	Synergistic Materials: None known.

SECTION 7 - PREVENTATIVE MEASURES

Personal Protective Equipment:		
Gloves (specify): Wear nitrile, neoprene, butyl rubber, or other protective gloves.	Respirator (specify): In situations where high concentrations of vapour or mist may be generated, a NIOSH-approved respirator is advised.	Eye (specify): Wear safety goggles or a face shield.
Footwear (specify): Not applicable.	Clothing (specify): Wear long pants, a long-sleeved shirt, and (preferably) a plastic jacket or apron.	Other (specify): Not applicable.
Engineering Controls (specify, e.g. ventilation, enclosed process): Use general ventilation to minimize exposure to product vapour or mist.		
Leak and Spill Procedure: 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 MSDSs 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.		
Waste Disposal: Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.		
Handling Procedures & Equipment: Do not use or mix with toilet bowl cleaners, rust removers, acids, or products containing ammonia. To do so will release dangerous gases. Do not re-enter treated area until two hours after spray or fogging applications. Use only in a well-ventilated area. Wash hands with soap and water after use. Do not reuse empty container. Rinse container and replace cap before discarding.		
Storage Requirements: Keep container closed, and store in a cool place (< 30°C) away from heat and sunlight. Do not freeze.		
Special Shipping Information: 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

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
Ingestion: Call a poison control centre or doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

SECTION 9 - PREPARATION DATE OF MSDS

Prepared by (group, department, etc.) Clorox Services Company	Phone Number: 1-925-425-6100	Date: January 28, 2009 V1
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N. Av. = Not available.

N. Ap. = Not applicable.

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