



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> CLOROX COMMERCIAL SOLUTIONS™ CLOROX® BLEACH CREAM CLEANSER		<b>PRODUCT IDENTIFICATION NUMBER:</b> Not applicable.
<b>PRODUCT USE:</b> Bleach cleanser for hard surfaces		
<b>MANUFACTURER</b>		<b>SUPPLIER</b>
Clorox Products Manufacturing Company 1221 Broadway Oakland, California 94612  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)
Calcium carbonate	15 - 25	471-34-1	6.45 g/kg (rat, oral)	Not available.
Sodium hypochlorite	1 - 5	7681-52-9	13 g/kg (5.25% NaOCl, rat, oral)	Not available.
Alkyldimethylamine oxide	1 - 5	1643-20-5, 3332-27-2, 7128-91-8	Not available.	Not available.
Titanium dioxide	0.1 - 1	13463-67-7	Not available.	Not available.
Sodium hydroxide	0.1 - 1	1310-73-2	Not available.	Not available.

**SECTION 3 - PHYSICAL DATA**

<b>Physical State:</b> Liquid	<b>Odour &amp; Appearance:</b> Light green, viscous liquid with a floral, bleach odour.	<b>Odour Threshold:</b> Not available.	<b>Specific Gravity:</b> ~1.2
<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> 65 - 75	<b>Solubility in Water:</b> Appreciable.	<b>pH (10% dilution):</b> ~12	<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.
<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: <input checked="" type="checkbox"/> Skin Absorption: <input type="checkbox"/> Eye Contact: <input checked="" type="checkbox"/> Inhalation Acute: <input type="checkbox"/> Inhalation Chronic: <input type="checkbox"/> Ingestion: <input type="checkbox"/>			
<b>Effects of Acute Exposure to Material:</b> Direct eye or prolonged skin contact may cause irritation.			
<b>Effects of Chronic Exposure to Material:</b> See Sensitization section below.			
<b>Exposure Limits (TLV, ACGIH):</b> Sodium hydroxide - 2 mg/m <sup>3</sup> - Ceiling limit  Titanium dioxide - 10 mg/m <sup>3</sup>	<b>Irritancy of Material:</b> Moderately irritating to eyes and skin.	<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> This product contains titanium dioxide. IARC Monographs (Volume 93 - in preparation) state that there is inadequate evidence of the carcinogenicity of titanium dioxide in humans and sufficient evidence of its carcinogenicity in experimental animals. IARC classification Group 2B for titanium dioxide.
<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 rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.	<b>Respirator (specify):</b> In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.	<b>Eye (specify):</b> Safety glasses.
<b>Footwear (specify):</b> Not applicable.	<b>Clothing (specify):</b> Not applicable.	<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 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.		
<b>Waste Disposal:</b> Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.		
<b>Handling Procedures &amp; Equipment:</b> Do not use or mix with toilet bowl cleaners, rust removers, acids, or products containing ammonia. To do so will release dangerous fumes. Use only in a well-ventilated area. Wash hands with soap and water after use. Do not wear product-contaminated clothing for prolonged periods. Avoid contact with foods.		
<b>Storage Requirements:</b> Store in a cool place.		
<b>Special Shipping Information:</b> Not restricted per TDG regulations.		

## SECTION 8 - FIRST AID MEASURES

<b>Eye Contact:</b> If in eyes, rinse with water for 15 minutes. If irritation persists, call a doctor.
<b>Skin Contact:</b> If on skin, rinse well with water. If irritation persists, call a doctor.
<b>Ingestion:</b> If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting.
<b>Inhalation:</b> If breathed in, move person to fresh air. If breathing problems develop, call a doctor.

## 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> February 7, 2011	V1
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N. Av. = Not available.

N. Ap. = Not applicable.