



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

Material Safety
Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: CLOROX® COMMERCIAL SOLUTIONS™ PINE-SOL® ALL-PURPOSE DISINFECTANT CLEANER - DIN 02314789		PRODUCT IDENTIFICATION NUMBER: Not applicable.
PRODUCT USE: General purpose disinfectant cleaner		
MANUFACTURER		SUPPLIER
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)
Pine oil	8 - 10	8002-09-3	3.2 g/kg (rat, oral) 5 g/kg (rabbit, dermal)	Not available.
Alkyl alcohol ethoxylates	3 - 7	127036-24-2	2 - 5 g/kg (rat, oral)	Not available.
Sodium petroleum sulfonate	1 - 5	68608-26-4	> 2 g/kg (rat, oral)	Not available.
Isopropyl alcohol	1 - 5	67-63-0	5 g/kg (rat, oral) 12.8 g/kg (rabbit, dermal)	22600 ppm (rat)

SECTION 3 - PHYSICAL DATA

Physical State: Liquid	Odour & Appearance: Clear, amber, slightly viscous liquid with a characteristic pine odour.	Odour Threshold: Not available.	Specific Gravity: ≈1.0
Vapour Pressure: Not available.	Vapour Density: N. Av.	Evaporation Rate: N. Av.	Boiling Point: N. Av.
% Volatile (by volume): 80 - 85	Solubility in Water: Appreciable.	pH: 3 - 4	Coef. of Water/Oil Dist.: Not available.
Freezing Point: N. Av.			

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: Class B, Division 3 (Combustible Liquid). Keep away from heat, sparks, and open flame. Product ignites but does not sustain combustion.		
Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If yes, under which conditions?		
Means of Extinction: Dry chemical, carbon dioxide (CO ₂), foam, or water spray.		
Special Procedures: None known.		
Flashpoint & Method: ≈ 49°C (Tag closed cup)	Upper Flammable Limit (% by volume): Not available.	Lower Flammable Limit (% by volume): Not available.
Autoignition Temperature: N. Ap.	Hazardous Combustion Products: Products of combustion are toxic.	
Explosion Data - Sensitivity to Impact: Not applicable.		Explosion Data - Sensitivity to Static Discharge: Not applicable.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If no, under which conditions?	
Incompatibility with other substances: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> If so, which ones?	
Reactivity, if any, and under what conditions?	None known.
Hazardous decomposition products?	None known.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry?			
Skin Contact: <u> X </u> Skin Absorption: <u> ___ </u> Eye Contact: <u> X </u> Inhalation Acute: <u> ___ </u> Inhalation Chronic: <u> ___ </u> Ingestion: <u> ___ </u>			
Effects of Acute Exposure to Material: Direct or prolonged eye or skin contact may result in irritation.			
Effects of Chronic Exposure to Material: None known.			
Exposure Limits (TLV, ACGIH): Isopropyl alcohol - 200 ppm - TWA 400 ppm - STEL	Irritancy of Material: Moderately irritating to eyes. Slightly irritating to skin.	Sensitization Property of Material: Not a sensitizer.	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 rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.	Respirator (specify): In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.	Eye (specify): Safety glasses.
Footwear (specify): Not applicable.	Clothing (specify): Not applicable.	Other (specify): Not applicable.
Engineering Controls (specify, e.g. ventilation, enclosed process):	Use general ventilation to minimize exposure to product 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.	
Waste Disposal:	Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.	
Handling Procedures & Equipment:	Wash hands with soap and water after use. Avoid contact with food.	
Storage Requirements:	Do not store near heat or open flame.	
Special Shipping Information:	Not restricted per TDG Regulations Part 2.18.	

SECTION 8 - FIRST AID MEASURES

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

SECTION 9 - PREPARATION DATE OF MSDS

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

N. Ap. = Not applicable.