



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	Freezing Point: N. Av.
		Coeff. of Water/Oil Dist.: Not available.	

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If yes, under which conditions? Class B, Division 3 (Combustible Liquid). Keep away from heat, sparks, and open flame. Product ignites but does not sustain combustion.			
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: December 02, 2011
---	--	-----------------------------------

V1

This information is furnished without warranty, expressed, or implied, except that it is accurate to the best knowledge of The Clorox Company of Canada, Ltd. The data on these sheets relates only to the specific material designated herein. The Clorox Company of Canada, Ltd. assumes no legal responsibility for use or reliance upon this data.

The CLOROX name and logo and Pine-Sol are registered trademarks of The Clorox Company.

N. Av. = Not available.

N. Ap. = Not applicable.