

1. Product and Company Identification

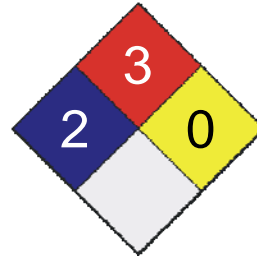
Product Name DETTOL® Antiseptic Liquid
CAS # Mixture
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).
 This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.**

Product Use Antiseptic

Distributed by Reckitt Benckiser (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 In Case of Emergency: 1-800-338-6167
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	3
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview WARNING
 Poison.
 PRECAUTIONS: For external use only.
 HARMFUL IF SWALLOWED.
 Avoid contact with eyes.
 Keep out of reach of children.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Avoid contact with eyes.
 None expected during normal conditions of use.
 May cause eye irritation upon direct contact with the eyes.

Skin None expected during normal conditions of use.
 Not expected to be a skin sensitizer.

Inhalation None expected during normal conditions of use.

Ingestion Health injuries are not known or expected under normal use.

Target organs Eyes. Respiratory system. Skin.

Chronic effects The finished product is not expected to have chronic health effects.

Signs and symptoms Eye irritation

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
4-chloro-3,5-xyleneol	88-04-0	3 - 7
Pine oil	8002-09-3	5 - 10
Isopropanol	67-63-0	7 - 13

4. First Aid Measures

First aid procedures

Eye contact	Undiluted Product: In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. Get immediate medical attention. Diluted Product: In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, get medical attention.
Skin contact	Wash off contamination with plenty of water. If symptoms develop or persist seek medical advice.
Inhalation	Move to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
Ingestion	If swallowed, give one glass of milk or water. Seek medical aid or contact Poison Control Centre. Do not induce vomiting.

Show the container or product label to the medical personnel.

Notes to physician

Treat patient symptomatically.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties Combustible by WHMIS criteria. Does not sustain combustion at 60°C and 75°C.

Extinguishing media

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Small spillages of up to 1 litre (0.26 gallon) may be cleaned up with a mop or an absorbent cloth. Medium spills of up to 5 litres (1.32 gallons) should be absorbed with sand, earth, sawdust or other inert material and transferred to a suitable container for disposal.
Never return spills in original containers for re-use.
Prevent large spills from entering sewers or drains.

7. Handling and Storage

Handling	Ensure adequate ventilation. WARNING. POISON. Combustible liquid. For external use only. HARMFUL IF SWALLOWED. Avoid contact with eyes. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. Use according to package label instructions.
Storage	Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. Store in original container in a cool, dry, well-ventilated area inaccessible to children and pets. Keep out of reach of children. Excursions: 60°C - Not permitted. 50°C - Not permitted. 40°C - Not more than 8 weeks. Do not store below 10°C.

8. Exposure Controls / Personal Protection

Exposure limit values	Exposure limit values
Ingredient(s)	
4-chloro-3,5-xyleneol	ACGIH-TLV Not established
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm
Pine oil	ACGIH-TLV Mist: 5 mg/m3
Engineering controls	General ventilation normally adequate.
Personal protective equipment	Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.
Eye / face protection	Avoid contact with eyes. When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended. Emergency responders should wear full eye and face protection.
Hand protection	Not required under normal use conditions. For sensitive skin or prolonged use, wear rubber gloves. Emergency responders should wear impermeable gloves.
Skin and body protection	No special requirements under normal use conditions. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Respiratory protection	Not normally required under normal use conditions. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.
General hygiene considerations	Avoid contact with eyes. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact. When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Appearance	Clear
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Colour	Brown
Form	Liquid
Odour	Characteristic Pine
Odour threshold	Not available
Physical state	Liquid
pH	9.90 - 10.15
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	40°C, Fire Point = 60°C
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	0.969 - 1.009
Relative density	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Miscible
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	Do not mix with other chemicals.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Keep away from excessive heat. Exposure to sunlight.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
4-chloro-3,5-xylenol	6.29 mg/l/4h rat
Isopropanol	16970 mg/l/4h rat
Pine oil	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
4-chloro-3,5-xylenol	3830 mg/kg rat
Isopropanol	4396 mg/kg rat
Pine oil	3200 mg/kg rat

Effects of acute exposure

Eye	Avoid contact with eyes. None expected during normal conditions of use. May cause eye irritation upon direct contact with the eyes.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.

Inhalation	None expected during normal conditions of use.
Ingestion	Health injuries are not known or expected under normal use.
Sensitisation	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
Isopropanol	67-63-0	96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
4-chloro-3,5-xyleneol	88-04-0	96 Hr LC50 Oncorhynchus mykiss: 0.13-1.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 1.3-2.1 mg/L [static]
Isopropanol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L
Ecotoxicity - Water Flea - Acute Toxicity Data		
4-chloro-3,5-xyleneol	88-04-0	48 Hr EC50 Daphnia magna: 6.7 - 9 mg/L [Static]
Isopropanol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
Pine oil	8002-09-3	48 Hr EC50 Daphnia magna: 17 - 28 mg/L [Flow through]
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Not available	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Disposal instructions	Review federal, provincial, and local government requirements prior to disposal. Discard empty container with normal household trash.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated - See 49 CFR - § 173.150 (f)

Transportation of Dangerous Goods (TDG - Canada)

Not Regulated - See TDG Part 1.33

IMDG (Marine Transport)

UN 1993, Flammable liquids, N.O.S. (Isopropyl Alcohol, Pine Oil), 3, III, Limited Quantity

IATA/ICAO (Air)

UN 1993, Flammable liquids, N.O.S. (Isopropyl Alcohol, Pine Oil), 3, III

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Registered with TPD, DIN 00373435

Canada - WHMIS - Ingredient Disclosure List

Isopropanol 67-63-0 1 %

WHMIS classification Exempt - Registered product - (DIN 00373435)

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information DETTOL® Antiseptic Liquid, 500 mL - 930666v6.0

Issue date 06-Mar-2013

Effective Date 01-Mar-2013

Expiry Date 01-Mar-2016

Prepared by Reckitt Benckiser Regulatory Department 800-333-3899

Other Information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.