



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Dettol
UPC CODES	Refer to Section 16
CAS #	Mixture
Product use	Antiseptic
Manufacturer	Reckitt Benckiser Healthcare LTD Dansom Lane Hull, England HU8 7DS In Case of Emergency: 1-800-888-0192 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

Warnings: For external use only.
Do not use: in the eyes or over large areas of the body.
Ask a doctor before use if you have: deep wounds or puncture wounds, animal bites or serious burns.
Stop use and ask a doctor if: irritation, sensitization, or allergic reaction occurs. These may be signs of a serious condition.
Stop use and ask a doctor if: the condition gets worse or lasts more than one week.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause eye irritation. Avoid contact with eyes.
Skin	Discontinue use (as an antiseptic) if rash or irritation occurs. Do not use undiluted on skin.
Inhalation	None expected.
Ingestion	For external use only.
Target organs	Eyes. Respiratory system. Skin.
Chronic effects	The finished product is not expected to have chronic health effects.
Signs and symptoms	Eye irritation

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Chloroxynol	88-04-0	2.5 - 10
Pine oil	8002-09-3	2.5 - 10
Isopropanol	67-63-0	10 - 20

4. First Aid Measures

First aid procedures

Eye contact	If splashed in eyes, immediately rinse eyes with plenty of water, remove any contact lenses and continue rinsing eyes for at least 15 minutes. Consult a physician or get medical attention.
Skin contact	Discontinue use (as an antiseptic) if rash or irritation occurs.
Inhalation	Remove to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
Ingestion	If swallowed, get medical help or contact a poison control centre right away. Do not induce vomiting.
Notes to physician	Contains pine oil.
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 OSHA criteria.
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.
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	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	For external use only. Avoid contact with eyes. Discontinue use (as an antiseptic) if rash or irritation occurs. Do not use undiluted on skin. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. Keep at temperatures between 20 and 25°C (68-77°F).

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Chloroxylenol	ACGIH-TLV Not established OSHA-PEL Not established
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm OSHA-PEL TWA: 400 ppm
Pine oil	ACGIH-TLV Mist: 5 mg/m ³ OSHA-PEL Not established
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
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	May cause mild skin irritation after prolonged or repeated use. 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	Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Clear.
Color	Brown
Form	Liquid
Odor	Characteristic Pine / Phenolic
Odor threshold	Not available
Physical state	Liquid
pH	9.5 (Basic)
Melting point	Not available
Freezing point	Not available
Pour point	Not available
Boiling point	Not available
Flash point	104.00 °F (40 °C) Tagliabue
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available

Vapor density	Not available
Specific gravity	0.98 (Water =1)
Relative density	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Miscible
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Chloroxylenol	6.29 mg/l/4h rat
Isopropanol	16970 mg/l/4h rat
Pine oil	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Chloroxylenol	3830 mg/kg rat
Isopropanol	4396 mg/kg rat
Pine oil	3200 mg/kg rat

Effects of acute exposure

Eye	May cause eye irritation. Avoid contact with eyes.
Skin	Discontinue use (as an antiseptic) if rash or irritation occurs. Do not use undiluted on skin.
Inhalation	None expected.
Ingestion	For external use only.
Sensitization	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.
ACGIH - Threshold Limit Values - Carcinogens	
Isopropanol	67-63-0 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 3 (Not Classifiable)	
Isopropanol	67-63-0 Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]
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.
Synergistic Materials	Not available

12. Ecological Information

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

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

UN/ID No. UN 1993

U.S. Department of Transportation (DOT)

Not Regulated by ground transport - See 49 CFR 173.150 (F)



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Transportation of Dangerous Goods (TDG - Canada)

Not Regulated by ground transport - See TDG Part 1.33

IMDG (Marine Transport)

UN 1993, Flammable Liquid N.O.S (Isopropyl alcohol, Pine Oil), Class 3, PG III, Limited Quantity, (Flashpoint 40°C)

IATA/ICAO (Air)

UN 1993, Flammable Liquid N.O.S (Isopropyl alcohol, Pine Oil), Class 3, PG III, Limited Quantity or Consumer Commodity, ID 8000 if acceptable to the air carrier.

15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

Product Registration: Registered with FDA

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Isopropanol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes
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Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Isopropanol 67-63-0 Present

U.S. - Massachusetts - Right To Know List

Isopropanol 67-63-0 Present

U.S. - Minnesota - Hazardous Substance List

Isopropanol 67-63-0 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Isopropanol 67-63-0 sn 1076

Pine oil 8002-09-3 sn 2684

U.S. - Pennsylvania - RTK (Right to Know) List

Isopropanol 67-63-0 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Isopropanol 67-63-0 Toxic; Flammable

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

12496-00044 - Dettol - 25.35 fl.oz. (750 mL) - 930666
12496-00043 - Dettol - 16.90 fl.oz. (500 mL) - 930666
12496-00042 - Dettol - 8.45 fl.oz. (250 mL) - 930666
12496-00047 - Dettol - 4.22 fl.oz. (125 mL) - 930666

Issue date

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Effective date

15-Mar-2010

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.



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