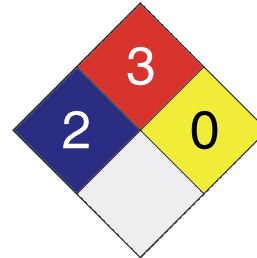


### 1. Product and Company Identification

**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

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	Discontinue use (as an antiseptic) if rash or irritation occurs.
<b>Inhalation</b>	Remove to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
<b>Ingestion</b>	If swallowed, get medical help or contact a poison control centre right away. Do not induce vomiting.
<b>Notes to physician</b>	Contains pine oil.
<b>General advice</b>	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.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Combustible by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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.

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## 7. Handling and Storage

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<b>Handling</b>	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.
<b>Storage</b>	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).

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Chloroxylenol	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Isopropanol	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 400 ppm <b>OSHA-PEL</b> TWA: 400 ppm
Pine oil	<b>ACGIH-TLV</b> Mist: 5 mg/m <sup>3</sup> <b>OSHA-PEL</b> 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.

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## 9. Physical and Chemical Properties

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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

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## 10. Stability and Reactivity

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

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## 11. Toxicological Information

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### Component analysis - LC50

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

### Component analysis - Oral LD50

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

### Effects of acute exposure

<b>Eye</b>	May cause eye irritation. Avoid contact with eyes.
<b>Skin</b>	Discontinue use (as an antiseptic) if rash or irritation occurs. Do not use undiluted on skin.
<b>Inhalation</b>	None expected.
<b>Ingestion</b>	For external use only.
<b>Sensitization</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>ACGIH - Threshold Limit Values - Carcinogens</b>	
Isopropanol	67-63-0      A4 - Not Classifiable as a Human Carcinogen
<b>IARC - Group 3 (Not Classifiable)</b>	
Isopropanol	67-63-0      Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Synergistic Materials</b>	Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae Data**

Isopropanol 67-63-0 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

**Ecotoxicity - Freshwater Fish Species Data**

Chloroxylenol 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 Data**

Chloroxylenol 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]

**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

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## 13. Disposal Considerations

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**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

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## 14. Transport Information

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**UN/ID No.** UN 1993

**U.S. Department of Transportation (DOT)**

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

## 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.

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## 15. Regulatory Information

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### 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

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
<b>Section 302 extremely hazardous substance</b>	No
<b>Section 311 hazardous chemical</b>	Yes
<b>Clean Air Act (CAA)</b>	Not available
<b>Clean Water Act (CWA)</b>	Not available
<b>State regulations</b>	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

26-Mar-2010

### 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.