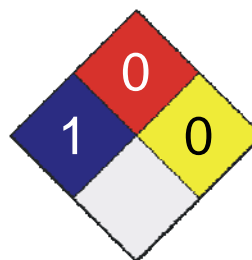


### 1. Product and Company Identification

**Product Name** LYSOL® Dual Action Cubes - Toilet Bowl Cleaner  
**UPC CODES** Refer to Section 16  
**CAS #** Mixture  
**Product Use** Toilet bowl cleaner  
**Distributed by** Reckitt Benckiser (Canada) Inc.  
 1680 Tech Avenue Unit #2  
 Mississauga, ON L4W 5S9  
 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	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B



### 2. Hazards Identification

**Emergency Overview** MAY IRRITATE EYES.  
DO NOT get in eyes.  
  
Keep out of reach of children.

**Potential short term health effects**

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

**Eyes** May cause eye irritation.

**Skin** May cause skin irritation.  
Not expected to be a skin sensitizer.

**Inhalation** None expected during normal conditions of use.

**Ingestion** May be harmful if swallowed.

**Target organs** Eyes. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, oedema, drying, defatting and cracking of the skin.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

### 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium lauryl sulfate	151-21-3	1 - 5
Amorphous silica, precipitated	112926-00-8	1 - 5
Alcohols, C11-14-iso, C13-rich	68526-86-3	1 - 5
Sodium sulfate	7757-82-6	15 - 40
Sodium citrate	6132-04-3	3 - 7
Amides, coco (hydroxyethyl)	68140-00-1	30 - 60
Sodium dodecylbenzenesulfonate	25155-30-0	7 - 13

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
<b>Skin contact</b>	If skin irritation occurs or persists, call a physician.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting.

### Notes to physician

Symptoms may be delayed.

### 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.  
Avoid contact with eyes and skin.

Keep out of reach of children.

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## 5. Fire-fighting Measures

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**Flammable properties** Not flammable by WHMIS criteria.

### Extinguishing media

**Suitable extinguishing media** Treat for surrounding material.

**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

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## 6. Accidental Release Measures

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**Personal precautions** Avoid contact with eyes and prolonged exposure to skin.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods for containment** None necessary.

**Methods for cleaning up** Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

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## 7. Handling and Storage

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**Handling** Avoid contact with eyes, skin and clothing.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

### Storage

Store in original container in a cool, dry, well-ventilated area inaccessible to small children.

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## 8. Exposure Controls / Personal Protection

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### Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C11-14-iso, C13-rich	<b>ACGIH-TLV</b> Not established
Amides, coco (hydroxyethyl)	<b>ACGIH-TLV</b> Not established
Amorphous silica, precipitated	<b>ACGIH-TLV</b> TWA: 10 mg/m <sup>3</sup>
Sodium citrate	<b>ACGIH-TLV</b> Not established
Sodium dodecylbenzenesulfonate	<b>ACGIH-TLV</b> Not established
Sodium lauryl sulfate	<b>ACGIH-TLV</b> Not established
Sodium sulfate	<b>ACGIH-TLV</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye/Face protection

Not normally required under normal use conditions.  
Emergency responders should wear full eye and face protection.

#### Hand protection

No special requirements under normal use conditions.  
Emergency responders should wear impermeable gloves.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Not normally required if good ventilation is maintained.  
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

Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
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	Tablet.
Colour	white Blue.
Form	Blocks
Odour	Characteristic
Odour threshold	Not available
Physical state	Solid
pH	7 (Neutral)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable

Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

## 10. Stability and Reactivity

<b>Reactivity</b>	Reacts vigorously with acids. This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<b>Incompatible materials</b>	Caustics. Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C11-14-iso, C13-rich	Not available
Amides, coco (hydroxyethyl)	Not available
Amorphous silica, precipitated	> 2 mg/L rat
Sodium citrate	Not available
Sodium dodecylbenzenesulfonate	Not available
Sodium lauryl sulfate	Not available
Sodium sulfate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C11-14-iso, C13-rich	Not available
Amides, coco (hydroxyethyl)	2700 mg/kg rat
Amorphous silica, precipitated	31600 mg/kg rat
Sodium citrate	Not available
Sodium dodecylbenzenesulfonate	438 mg/kg rat
Sodium lauryl sulfate	1288 mg/kg rat
Sodium sulfate	10000 mg/kg rat; 5989 mg/kg mouse

### Effects of acute exposure

<b>Eye</b>	May cause eye irritation.
<b>Skin</b>	May cause skin irritation. Not expected to be a skin sensitizer.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	May be harmful if swallowed.

**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.

#### IARC - Group 3 (Not Classifiable)

Amorphous silica, precipitated 112926-00-8 Monograph 68 [1997] (listed under Amorphous silica)

**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

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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 - Acute Toxicity Data

Alcohols, C11-14-iso, C13-rich	68526-86-3	96 Hr EC50 Pseudokirchneriella subcapitata: 172.2 mg/L
Sodium lauryl sulfate	151-21-3	72 Hr EC50 Desmodesmus subspicatus: 53 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 30 - 100 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 117 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 3.59 - 15.6 mg/L [static]

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Alcohols, C11-14-iso, C13-rich	68526-86-3	96 Hr LC50 Oncorhynchus mykiss: 13.9 mg/L [static]; 96 Hr LC50 Pimephales promelas: 15.7 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.2 mg/L
Amides, coco (hydroxyethyl)	68140-00-1	96 Hr LC50 Brachydanio rerio: 28.5 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 31 mg/L
Sodium dodecylbenzenesulfonate	25155-30-0	96 Hr LC50 Oncorhynchus mykiss: 10.8 mg/L [static]
Sodium lauryl sulfate	151-21-3	96 Hr LC50 Pimephales promelas: 8-12.5 mg/L [static] (fry); 96 Hr LC50 Pimephales promelas: 15-18.9 mg/L [static] (juvenile); 96 Hr LC50 Pimephales promelas: 22.1-22.8 mg/L [static] (adult); 96 Hr LC50 Oncorhynchus mykiss: 4.3-8.5 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.62 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L; 96 Hr LC50 Brachydanio rerio: 7.97 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 9.9-20.1 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 4.06-5.
Sodium sulfate	7757-82-6	96 Hr LC50 Pimephales promelas: 13500 - 14500 mg/L; 96 Hr LC50 Pimephales promelas: >6800 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 3040 - 4380 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500 mg/L

### Ecotoxicity - Water Flea - Acute Toxicity Data

Alcohols, C11-14-iso, C13-rich	68526-86-3	48 Hr EC50 Daphnia magna: 37 mg/L
Amides, coco (hydroxyethyl)	68140-00-1	24 Hr EC50 Daphnia magna: 10 mg/L
Sodium lauryl sulfate	151-21-3	48 Hr EC50 Daphnia magna: 1.8 mg/L
Sodium sulfate	7757-82-6	96 Hr EC50 Daphnia magna: 630 mg/L; 48 Hr EC50 Daphnia magna: 2564 mg/L

<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

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## 13. Disposal Considerations

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

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## 14. Transport Information

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<b>UN/ID N.o.</b>	Not applicable
<b>U.S. Department of Transportation (DOT): Classification:</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>U.S. DOT Hazard Class</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>DOT RQ (lbs)</b>	Not applicable
<b>ERG NO</b>	Not applicable

**Transportation of Dangerous Goods (TDG - Canada): Classification:** Not regulated

**Proper shipping name** Not applicable

**Status** Not applicable

**Packing group** Not applicable

**IMDG (Marine Transport): Classification:** Not regulated

**Proper shipping name** Not applicable

**Class** Not applicable

**Subsidiary Risk** Not applicable

**Packing group** Not applicable

**IMDG Page** Not applicable

**Marine pollutant** Not applicable

**EMS** Not applicable

**MFAG** Not applicable

**Maximum Quantity** Not applicable

**IATA/ICAO (Air): Classification:** Not regulated

**Proper shipping name** Not applicable

**Class** Not applicable

**Subsidiary Risk:** Not applicable

**Packing group** Not applicable

**Maximum Quantity** Not applicable

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## 15. Regulatory Information

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**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: Product is compliant with CCCR regulatory guidelines; a specific registration is not required for this product.

**Canada - WHMIS - Ingredient Disclosure List**

Sodium dodecylbenzenesulfonate	25155-30-0	1 %
Sodium lauryl sulfate	151-21-3	1 %

**WHMIS classification**

Exempt - Consumer product

**Inventory Status**

<b>Country(s) or region</b>	<b>Inventory Name</b>	<b>On Inventory (Yes/No)*</b>
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)

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## 16. Other Information

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**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**

59361-80893-6 - 2 x 48g - LYSOL® Dual Action Cubes - Toilet Bowl Cleaner - 0151920

**Issue date**

08-Jul-2011

**Effective Date**

01-Jul-2011

**Expiry Date**

01-Jul-2014

**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.