SAFETY DATA SHEET

HEALTH + HYGIENE + HOME

Lysol Dual Action Wipes

1. Product and company identification

Product name : Lysol Dual Action Wipes

Supplier : Reckitt Benckiser (Canada) Inc.

1680 Tech Avenue, Unit #2 Mississauga, Ontario L4W 5S9

CANADA

Telephone: +1 905 283 7000

Material uses : Disinfectant.

Product use : Consumer

SDS # : D0289451 v2.0

Formulation #: : Citrus (0356376 v1.0) 1825-054C

Crisp Linen (0356378 v1.0) 1825-106B

DIN # : 02360063

UPC Code / Sizes : 35 & 75 wet wipes 7" x 8" sheets

24 & 50 wet wipes 8.4" x 10" sheets

Manufacturer : Reckitt Benckiser LLC.

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

Validation date : 18/05/2015. Emergency telephone number : 1-800-338-6167

Transport Emergency : 1-800-424-9300 (U.S. & Canada) CHEMTREC

phone: Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

2. Hazards identification

Emergency overview

Physical state : Solid. [Presaturated Wipes]

Odor : Characteristic.
Signal word : CAUTION

Hazard statements: May cause eye irritation.

Precautionary measures: Keep out of reach of children. Avoid contact with eyes. Wash hands after use.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and

level of exposure.

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2. Hazards identification

Target organs

: Contains material which may cause damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

Medical conditions aggravated by overexposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
Ethanol	64-17-5	1 - 2.5
Benzyl-dimethyl-tetradecylazanium chloride	68424-85-1	0.1 - 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

First aid If in eyes, Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a poison Control Center or Doctor for treatment advice

Protection of first-aiders: Use personal protective equipment as required.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Flammability Remark : Not available.

Explosibility Remark : Not available.

Flammability of the product No specific fire or explosion hazard.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Special hazards arising from the substance or mixture

Special exposure hazards Promptly isolate the scene by removing all persons from the vicinity of the

incident if there is a fire. No action shall be taken involving any personal

risk or without suitable training.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Advice for firefighters

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

Special remarks on explosion hazards

Sensitivity to mechanical impact Not available.

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5. Fire-fighting measures

Sensitivity to static discharge

Not available.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling (ACGIH TLV)		TLV)			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
ethanol	US ACGIH 4/2014	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 4/2014	-	-	-	1000	-	-	-	-	-	
	ON 1/2013	-	-	-	1000	-	-	-	-	-	
	QC 1/2014	1000	1880	-	-	-	-	-	-	-	

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8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Manufacturer: Exposure controls

Engineering measures

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other protection : Not available.

9. Physical and chemical properties

Physical state : Solid. [Presaturated Wipes]

Flash point : Closed cup: >93.3°C (>199.9°F) (liquid preparation)

Burning time : Not available.
Burning rate : Not available.
Auto-ignition temperature : Not available.
Flammable limits : Not available.
Color : Not available.

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9. Physical and chemical properties

Odor : Characteristic.

Taste : Not available.

Molecular weight : Not applicable.

Molecular formula : Not applicable.

pH : 10.5 [Conc. (% w/w): 100%] (liquid preparation)

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Critical temperature : Not available.

Relative density (g/ml) : 0.97 to 0.996 g/cm³ [20 to 25°C] (liquid preparation)

Not available. **Bulk density** Vapor pressure Not available. : Not available. Vapor density : Not available. **Volatility Odor threshold** : Not available. Not available. **Evaporation rate SADT** : Not available. : Not available. **Viscosity** Ionicity (in water) : Not available. **Dispersibility properties** : Not available.

Solubility : Easily soluble in the following materials: cold water and hot water. (liquid preparation)

Physical/chemical : Not available.

properties comments

10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Conditions to avoid : The product is stable.

No specific data.

Keep away from extreme heat. Protect from moisture. Keep from freezing.

Incompatible materials : Do not mix with household chemicals.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur. reactions

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours	
	LD50 Oral	Rat	7 g/kg	-	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	344 mg/kg	-	
*Lysol® Dual Action Wipes	LC50 Inhalation Vapor LD50 Dermal	Rat Rat	>2.04 mg/l >5000 mg/kg	14 days -	

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Conforms to US Standard ANSI Z400.1/Z129.1-2010 D0289451 v2.0 11. Toxicological information LD50 Oral >5000 mg/kg Rat Conclusion/Summary : Not classified Harmful *Information is based on toxicity test result of the concentrate of a similar product. **Chronic toxicity Product/ingredient name** Result **Species Dose Exposure** Not available. Conclusion/Summary : Not available. **Irritation/Corrosion Observation** Product/ingredient name Result **Species** Score **Exposure** Eyes - Moderate irritant Rabbit 0.06666667 ethanol minutes 100 milligrams Eyes - Mild irritant Rabbit 24 hours 500 milligrams Eyes - Moderate irritant Rabbit 100 microliters Eyes - Severe irritant Rabbit 500 milligrams Skin - Mild irritant Rabbit 400 milligrams Skin - Moderate irritant 24 hours 20 Rabbit milligrams Quaternary ammonium Skin - Severe irritant 25 milligrams Rabbit compounds, benzyl-C12-16-alkyldimethyl, chlorides Eyes - Cornea opacity <1 *Lysol® Dual Action Wipes Rabbit 24 hours 7 days Skin - Slight irritant Rabbit 1.2 Conclusion/Summary : Not available. Skin : Slightly irritating to the skin. *Information is based on toxicity test result of the concentrate of a similar product. **Eyes** : Moderately irritating to eyes. *Information is based on toxicity test result of the concentrate of a similar product. Respiratory : Not available. Sensitizer Product/ingredient name Pouto of Species Pocult

Product/ingredient name	exposure	Species		Result				
*Lysol® Dual Action Wipes	skin	Guinea pig		Not sensitizing				
Conclusion/Summary	: Not available.	•						
Skin		Non-sensitizer to skin. *Information is based on toxicity test result of the concentrate of a similar product.						
Respiratory	: Not available.							
Carcinogenicity								
Product/ingredient name	Result		Species	Dose	Exposure			

Conclusion/Summary : Not available.

Classification

Not available.

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11. Toxicological information

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanol	A3	1	-	-	-	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Not available.			

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				ļ

Conclusion/Summary : Not available.

Reproductive toxicity

•	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Not available.						

Conclusion/Summary : Not available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Acute EC50 0.016 mg/l	Daphnia	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: Not available.

Persistence/degradability

Product/ingredient r	name Test	Result	Dose	Inoculum
Not available.				

Conclusion/Summary

: Not available.

Partition coefficient: n-

: Not available.

octanol/water

: Not available.

Bioconcentration factor Mobility : Not available.

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12. Ecological information

Toxicity of the products of biodegradation

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Not a DOT controlled material (United States). Not a TDG-controlled material. This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

15. Regulatory information

United States

U.S. Federal regulations

: TSCA 4(a) proposed test rules: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

TSCA 8(a) PAIR: 2-methylpropan-2-ol; octanal; decanal; 2-methylundecanal; αhexylcinnamaldehyde; phenylacetaldehyde

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Delayed (chronic) health hazard

Clean Air Act Section 112 : Not listed

(b) Hazardous Air **Pollutants (HAPs)**

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals) SARA 311/312 HCS 1994

Classification : Delayed (chronic) health hazard

Composition/information on ingredients

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15. Regulatory information

Name	%	hazard	Sudden release of pressure		(acute)	Delayed (chronic) health hazard
ethanol	1 - 2.5	Yes.	No.	No.	Yes.	Yes.

State regulations

Massachusetts : The following components are listed: ETHYL ALCOHOL

New York : None of the components are listed.

New Jersey : The following components are listed: ETHYL ALCOHOL; ALCOHOL

Pennsylvania : The following components are listed: DENATURED ALCOHOL

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI : The following components are listed: Ethanol

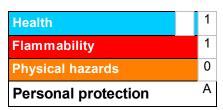
CEPA Toxic substances: None of the components are listed.

Canada inventory : Not determined.

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.

16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue : 18/05/2015.

Date of previous issue : 17/12/2014.

Version : 2

Prepared by : Reckitt Benckiser LLC.

Product Safety Department

1 Philips Parkway

Montvale, New Jersey 07646-1810 USA.

FAX: 201-476-7770

Revision comments : Section 11: Revised product eye data.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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.

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