# SAFETY DATA SHEET



Lysol Brand Kills 99.9% of Viruses & Bacteria Power & Free Tap Top Multi-Purpose Cleaner with Hydrogen Peroxide, All Scents

# 1. Product and company identification

Product name : Lysol Brand Kills 99.9% of Viruses & Bacteria Power & Free Tap Top Multi-Purpose

Cleaner with Hydrogen Peroxide, All Scents

**Distributed by** : Reckitt Benckiser LLC.

Morris Corporate Center IV

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

+1 973 404 2600

Emergency telephone number (Medical)

: 1-800-338-6167

Emergency telephone number (Transport)

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

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

Website: : http://www.rbnainfo.com

Product use : Multipurpose Cleaner

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS 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 regulations, and shown in Section 15 of this SDS.

**SDS #** : D8007202 v1.0

Formulation #: : 1621-187B (8005137) Citrus Sparkle Zest Scent

1621-188A (8006668) Oxygen Splash Scent

**EPA ID No.** : 777-126

**UPC Code / Sizes** : 14oz HDPE pump top dispenser.

# 2. Hazards identification

Classification of the substance or mixture

: CORROSIVE TO METALS - Category 1

**GHS label elements** 

Hazard pictograms



Signal word : Warning

**Hazard statements**: May be corrosive to metals.

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## 2. Hazards identification

**Precautionary statements** 

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention** : Keep only in original container.

Response : Absorb spillage to prevent material damage.

**Storage** : Store in corrosive resistant container with a resistant inner liner.

**Disposal** : Not applicable. Supplemental label : None known.

elements

**Hazards not otherwise** 

classified

**Eye contact** 

Inhalation

Ingestion

: None known.

# 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
hydrogen peroxide	1 - 2.5	7722-84-1
Citric acid	0.1 - 1	77-92-9

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

### **Description of necessary first aid measures**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and **Skin contact** 

shoes. Get medical attention if symptoms occur.

: Wash out mouth with water. Remove dentures if any. Move to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

### Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Mildly irritating to the eyes.

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## 4. First aid measures

: No known significant effects or critical hazards. Inhalation

Skin contact : Slightly irritating to the skin.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

redness

Inhalation : No specific data.

**Skin contact** : Adverse symptoms may include the following:

Irritation

No specific data. Ingestion

### Indication of immediate medical attention and special treatment needed, if necessary

: Treat symptomatically. Notes to physician Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

# 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** 

decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: 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.

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.

# 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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## 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

### **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 and materials for containment and cleaning up

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

### Precautions for safe handling

### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. Absorb spillage to prevent material damage.

# including any incompatibilities

Conditions for safe 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. Store in corrosive resistant container with a resistant inner liner. 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

### **Control**

Occupational exposure limits

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# 8. Exposure controls/personal protection

# Ingredient name hydrogen peroxide ACGIH TLV (United States, 6/2013). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours. TWA: 1.4 mg/m³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 1 ppm 10 hours.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

TWA: 1.4 mg/m<sup>3</sup> 10 hours.

TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.

OSHA PEL (United States, 2/2013).

**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.

### **Individual protection measures**

**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.

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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### **Skin protection**

**Hand protection** 

: 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.

**Body protection** 

: 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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed 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.

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# 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. : Clear. Color

Odor : Characteristic. : Not available. **Odor threshold** 

: 2.1 to 3.5 [Conc. (% w/w): 100%] pН

**Melting point** : Not available. : Not available. **Boiling point** 

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

**Evaporation rate** : Not available. : Not available. Flammability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available.

: 1 to 1.005 g/cm3 [20 to 25°C] Relative density

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **Viscosity** : Not available.

# 10. Stability and reactivity

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

**Chemical stability** : The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur. reactions Polymerization. : There are no data available on the mixture itself.

Conditions to avoid : Do not mix with: acids or oxidizing agents

**Incompatible materials** : Reactive or incompatible with the following materials: metals Do not mix with

household chemicals

**Hazardous decomposition** 

products

: Hazardous decomposition products : carbon oxides , Various Organic chemicals.

# 11. Toxicological information

Information on toxicological effects

**Acute toxicity** 

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# 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
hydrogen peroxide	LD50 Oral	Rat - Male, Female	805 mg/kg (70% H2O2 w/w)	-
Citric acid	LD50 Oral	Rat	3 g/kg	-
*Lysol Multi-Purpose Cleaner with Hydrogen Peroxide Tap Top, All Scents	LC50 Inhalation Vapor	Rat	>2.06 mg/l	4 hours
rop, / in coorne	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg >5000 mg/kg	-

**Conclusion/Summary** 

: Not classified Harmful \*Information is based on toxicity test result of a similar product.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrogen peroxide	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
Citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				Micrograms	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	0.5 Mililiters	-
*Lysol Multi-Purpose Cleaner	Eyes - Cornea opacity	Rabbit	<1	-	-
with Hydrogen Peroxide Tap					
Top, All Scents					
	Skin - Slight irritant	Rabbit	<1	-	-

### **Conclusion/Summary**

Skin

: Slightly irritating to the skin. \*Information is based on toxicity test result of a similar

product

**Eyes** 

: Mildly irritating to the eyes. \*Information is based on toxicity test result of a similar product.

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
*Lysol Multi-Purpose Cleaner with Hydrogen Peroxide Tap Top, All Scents	skin	Guinea pig	Not sensitizing

### **Conclusion/Summary**

Skin

: Non-sensitizer to skin. \*Information is based on toxicity test result of a similar product.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
hydrogen peroxide	-	3	-

### Reproductive toxicity

Not available.

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# 11. Toxicological information

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

### Information on the likely

routes of exposure

: Not available.

### Potential acute health effects

**Eye contact** : Mildly irritating to the eyes.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Slightly irritating to the skin.

**Ingestion**: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

Irritation

**Ingestion**: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

### **Short term exposure**

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

No known significant effects or critical hazards.

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# 11. Toxicological information

**Fertility effects** 

: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

# 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 30 mg/l Fresh water	Fish - Siluriformes - Fingerling	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days
Citric acid	Acute LC50 160000 μg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
hydrogen peroxide	-1.36	-	low
Citric acid	-1.8		low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

## Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

### **Disposal methods**

Code #

: Waste packaging should be recycled. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1760	Corrosive liquids, n.o. s. (citric acid, hydrogen peroxide)	8	III	<b>\( \)</b>	Limited quantity
TDG Classification	UN1760	CORROSIVE LIQUID, N.O.S. (citric acid, hydrogen peroxide)	8	III	<b>\_</b>	Limited quantity
Mexico Classification	Not applicable	Not applicable.	Not applicable	N/A		Not applicable.
IMDG Class	UN1760	CORROSIVE LIQUID, N.O.S. (citric acid, hydrogen peroxide)	8	III	$\Diamond$	Limited quantity
IATA-DGR Class	UN1760	Corrosive liquid, n.o.s. (citric acid, hydrogen peroxide)	8	III		See DG List.

PG\*: Packing group

# 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 8(a) PAIR: 1-(2-butoxy-1-methylethoxy)propan-2-ol; α-hexylcinnamaldehyde; 2-(4tert-butylbenzyl)propionaldehyde; 4-(4-hydroxy-4-methylpentyl)cyclohex-3enecarbaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602 **Class I Substances** 

: Not listed

Clean Air Act Section 602

: Not listed

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

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# 15. Regulatory information

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

### **SARA 302/304**

**Composition/information on ingredients** 

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide	1 - 2.5	Yes.	1000	106.1	1000	106.1

SARA 304 RQ : 95238.1 lbs / 43238.1 kg [11393.8 gal / 43130.3 L]

**SARA 311/312** 

Classification : Reactive
Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
hydrogen peroxide Citric acid			No. No.	No. No.	Yes. Yes.	No. No.

State regulations

Massachusetts : The following components are listed: HYDROGEN PEROXIDE

New York : The following components are listed: Hydrogen peroxide

New Jersey : The following components are listed: HYDROGEN PEROXIDE

Pennsylvania : The following components are listed: HYDROGEN PEROXIDE (CONC > 52 PERCENT)

**Label elements** 

**Hazard statements**: Keep out of reach of children.

**Precautionary measures**: Avoid contact with eyes, skin and clothing.

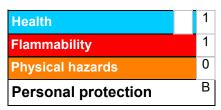
Avoid breathing dust/fume/gas/mist/vapors/spray.

Additional information : Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water.

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### 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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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** : 11/09/2014.

Date of previous issue : No previous validation

Version :

Prepared by : Reckitt Benckiser LLC.

Product Safety Department

1 Philips Parkway

Montvale, New Jersey 07646-1810 USA.

FAX: 201-476-7770

### ▼ 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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# 16. Other information



RB is a member of the CSPA Product Care Product Stewardship Program.