SAFETY DATA SHEET



LYSOL® Pet Solutions Disinfecting Cleaner - Citrus Blossom

1. Product and company identification

Product name : LYSOL® Pet Solutions Disinfecting Cleaner - Citrus Blossom

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.
Consumer uses.

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 # : D8378778 v2.0 **Formulation #** : FF3151716 v1.0

EPA ID No. : 777-126

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Multipurpose Cleaner. Consumer uses.

2. Hazards identification

Classification of the substance or mixture

: CORROSIVE TO METALS - Category 1

GHS label elements

Hazard pictograms



Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 1/13

(US

2. Hazards identification

Signal word : Warning

Hazard statements : May be corrosive to metals.

Precautionary statements

General : Not applicable.

Prevention : Keep only in original packaging.

Response : Absorb spillage to prevent material damage.

Storage : Store in a corrosion resistant container with a resistant inner liner.

Disposal : Not applicable. Supplemental label : None known.

elements

Hazards not otherwise

classified

: None known.

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
· (= :::::::) · · · · · · · · · · · · · · ·	1 - 5	29911-28-2
hydrogen peroxide solution	1 - 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

Eye contact : 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.

Inhalation : 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. Loosen tight clothing such as a collar,

tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

: FF3151716_D8378778 **SDS** # Code # : D8378778 v2.0 **Date of issue** : 1/6/2021 2/13

4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: 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.

Code # : FF3151716 D8378778 SDS # : D8378778 v2.0 **Date of issue** : 1/6/2021 3/13

5. Fire-fighting measures

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.

For emergency responders: If specialized 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.

Conditions for safe storage, : including any incompatibilities

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 a corrosion resistant container with a resistant inner liner. Keep away from metals. 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. See Section 10 for incompatible materials before handling or use.

Code # : FF3151716 D8378778 **SDS** # : D8378778 v2.0 **Date of issue** : 1/6/2021 4/13

8. Exposure controls/personal protection

Control

Occupational exposure limits

Ingredient name	Exposure limits	
hydrogen peroxide solution ACGIH TLV (United States, 3/ 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.	
	NIOSH REL (United States, 10/2016).	
	TWA: 1 ppm 10 hours.	
	TWA: 1.4 mg/m³ 10 hours. OSHA PEL (United States, 5/2018).	
	TWA: 1 ppm 8 hours.	

Appropriate engineering controls

contaminants.

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.

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

TWA: 1.4 mg/m³ 8 hours.

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

: 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

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 5/13

9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear]
Color : Colorless.

Odor : Citrus, cedarwood, lemon

Odor threshold : Not available.

pH : 2.1 to 3.5

Melting point : Not available.

Boiling point : Not available.

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

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

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 0.98 to 1.02

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

Conditions to avoid : No specific data.

Incompatible materials: Reactive or incompatible with the following materials:

metals

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 6/13

11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
hydrogen peroxide solution	LD50 Oral		805 mg/kg (70% H2O2 w/w)	-
Citric acid Lysol Pet Disinfecting Cleaner_FF3151716_D8378778 (US)	LD50 Oral LC50 Inhalation Vapor		11700 mg/kg >2.06 mg/l	- 4 hours
	LD50 Dermal LD50 Oral		>5050 mg/kg >5000 mg/kg	-

Conclusion/Summary

: Not Classified: Information is based on toxicity test result of a similar product.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrogen peroxide solution	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
Citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Lysol Pet Disinfecting Cleaner_FF3151716_D8378778 (US)	Skin - Mild irritant	Rabbit	-	4 hours	-
•	Eyes - Mild irritant	Rabbit	-	4 hours	-

Conclusion/Summary

Skin

: Irritating to skin. Information is based on toxicity test result of a similar product.

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

product.

Respiratory

: Based on available data, the classification criteria are not met.

Sensitization

Eyes

3	Route of exposure	Species	Result
Lysol Pet Disinfecting Cleaner_FF3151716_D8378778 (US)		Guinea pig	Not sensitizing

Conclusion/Summary

Skin

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

Respiratory

: Based on available data, the classification criteria are not met.

Mutagenicity

Not available.

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Carcinogenicity

Not available.

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Classification

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

Code # : FF3151716 D8378778 SDS # : D8378778 v2.0 **Date of issue** : 1/6/2021 7/13

11. Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity
Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
hydrogen peroxide solution	Category 3		Respiratory tract irritation

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
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

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.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 8/13

11. Toxicological information

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	(vapors)	Inhalation (dusts and mists) (mg/ I)
hydrogen peroxide solution	805	N/A	N/A	11	N/A
Citric acid	11700	N/A	N/A	N/A	N/A

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide solution	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 93 ppm Fresh water	Fish - Oncorhynchus mykiss	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

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Persistence and degradability

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1-(2-butoxy-1-methylethoxy) propan-2-ol	1.523	-	low
hydrogen peroxide solution Citric acid	-1.36 -1.8	-	low low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 9/13

12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods

: 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.

14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1760	UN1760	UN1760	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (hydrogen peroxide, citric acid)	CORROSIVE LIQUID, N.O.S. (hydrogen peroxide, citric acid)	CORROSIVE LIQUID, N.O.S. (hydrogen peroxide, citric acid)	Corrosive liquid, n.o.s. (hydrogen peroxide, citric acid)
Transport hazard class(es)	8	8	8	8
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.

Additional information

DOT Classification : Limited quantity **TDG Classification** : Limited quantity **IMDG** : Limited quantity **IATA** : See DG List

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Code # : FF3151716 D8378778 SDS # : D8378778 v2.0 **Date of issue** : 1/6/2021 10/13

15. Regulatory information

U.S. Federal regulations

Clean Air Act Section 112 : Listed

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

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide solution	1 - 5	Yes.	1000	106.1	1000	106.1

SARA 304 RQ : 95238.1 lbs / 43238.1 kg [11422.3 gal / 43238.1 L]

SARA 311/312

Classification : CORROSIVE TO METALS - Category 1

Composition/information on ingredients

Name	%	Classification
1-(2-butoxy-1-methylethoxy) propan-2-ol	1 - 5	SKIN IRRITATION- Category 2 SERIOUS EYE DAMAGE - Category 1
hydrogen peroxide solution	1 - 5	OXIDIZING LIQUIDS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Citric acid	0.1 - 1	EYE IRRITATION - Category 2A

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

California Prop. 65

⚠ This product does not require a Safe Harbor warning under California Prop. 65.

Label elements

EPA

Signal word: : CAUTION **Hazard statements** : Not applicable

11/13 Code # : FF3151716 D8378778 SDS # : D8378778 v2.0 **Date of issue** : 1/6/2021

15. Regulatory information

Special Inert substance.

Precautionary measures : Keep out of reach of children. Do not spray directly on pets. Keep children and pets off

area till dry. Use only in well ventilated areas. Rinse all food contact surfaces with water

after use.

Skin sensitizer

Additional information / Recommendations

Additional information : If ingested, rinse mouth out with water. IMMEDIATELY call a physician or poison control

center. Have the product label or container with you while calling a doctor or going for

Recommendations : No known significant effects or critical hazards. : No known significant effects or critical hazards. Recommendations

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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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



NFPA (30B) aerosol Flammability Not applicable

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

: FF3151716_D8378778 **SDS** # Code # : D8378778 v2.0 **Date of issue** : 1/6/2021 12/13

16. Other information

Date of issue : 1/6/2021

Date of previous issue : 22/07/2020

Version : 2

Prepared by : Reckitt Benckiser India Ltd

Plot No 48 Sector - 32 Institutional Area Gurgaon, Haryana India - 122001

▼ 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.



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

Code # : FF3151716_D8378778 SDS # : D8378778 v2.0 Date of issue : 1/6/2021 13/13