



MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Print date: 24-Nov-2009

1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number	EPA Submission MSDS
Commercial Product Name	Professional Lysol® Brand III Kills 99.9% of Viruses & Bacteria Disinfectant Spray - Crisp Linen® Scent
Validation/Revision Date	24-Nov-2009
Product Identifier:	EPA Reg. Number: 777-99-675
Formula Number:	1178-172 (0175917)
UPC Code(s) and Size:	36241-75802 (3 x 19 oz.) 36241-82108 (4 x 19 oz.) 36241-74828 (19 oz.)
Recommended / Intended Use:	Disinfectant surface spray
Manufacturer	Reckitt Benckiser Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 Telephone: +1 973 404 2600
Distributor:	Reckitt Benckiser Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 Telephone: +1 973 404 2600
Emergency Telephone Number:	1-800-228-4722 (U.S.)
Transportation Emergencies:	1-800-424-9300 (U.S. & Canada) CHEMTREC Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

2. HAZARDS IDENTIFICATION
Emergency Overview
CAUTION!

Causes moderate eye irritation.

DO NOT spray in eyes, on skin or on clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

FLAMMABLE.

Contents under pressure.

Keep away from heat, sparks, and open flame.

Do not puncture or incinerate container.

Exposure to temperatures above 130° F may cause bursting.

KEEP OUT OF REACH OF CHILDREN
3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Proportion (% w/w)	ACGIH - Occupational Exposure Limits - TWAs	OSHA PEL
Ethanol 64-17-5	30 - 60 %	-	TWA: 1000 ppm TWA: 1900 mg/m ³
n-butane 106-97-8	1 - 5 %	= 1000 ppm TWA 1 322 1 Butane	TWA: 1900 mg/m ³ TWA: 800 ppm
Propane 74-98-6	< 2.5 %	= 1000 ppm TWA 1 322 1 Propane	TWA: 1000 ppm TWA: 1800 mg/m ³

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

4. FIRST AID MEASURES

Inhalation	Move to fresh air
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye Contact	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.
Ingestion	Clean mouth with water and afterwards drink plenty of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Notes to Physician	Contains Denatured Ethyl Alcohol. Ingestion may result in ethanol poisoning. Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.
Aggravated Medical Conditions:	NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org .

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

5. FIRE-FIGHTING MEASURES

Flash point:	25.6°C (78°F) Aerosol flame extension less than 18 inches (45 cm). FLAMMABLE AEROSOL.
Suitable Extinguishing Media:	Use water spray, dry chemical, CO ₂ , or "alcohol" foam as suitable for the surrounding fire conditions.
Extinguishing media which must not be used for safety reasons:	No information available
Specific hazards:	All aerosols are pressurised products and will eventually burst if exposed to very high temperatures, or if involved in a fire. They will then release the propellant hydrocarbon gas which is extremely flammable.
Unusual hazards:	Aerosol cans may explode with extreme heat and become projectiles.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
Precautions for fire-fighting	Standard procedure for chemical fires. Move aerosol containers away from fire if possible and safe to do so. Use water spray to cool fire exposed containers. Provide shielding to protect firefighters from venting, rupturing or bursting containers.
<u>NFPA Aerosol Level:</u>	Flammability Rating 1, per NFPA 30B.
<u>NFPA:</u>	Health Hazard: 1 Flammability: 1 Physical Hazard: 0
<u>HMIS:</u>	Health Hazard: 1 Flammability: 3 Physical Hazard: 0 Personal Protection: B
<u>Key:</u>	(Also see Sections 3 & 8)

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation.
Environmental Precautions:	Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.
Methods for Cleaning Up:	<p>Small spills: Wearing appropriate protective equipment, soak up with an inert absorbent material and dispose of in an appropriate waste container. Rinse surface residue and flush to sink or sanitary sewer.</p> <p>Large Spills: Eliminate all sources of ignition and ventilate the area with equipment rated for use in flammable environments.</p> <p>Collect any remaining liquid and store in metal container for later disposal according to local, state, provincial or federal regulations.</p>
Methods for Containment:	Prevent further leakage or spillage if safe to do so.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

7. HANDLING AND STORAGE

- Handling:** Use only as directed on the container label.
 Ensure adequate ventilation
 Wear personal protective equipment
 Avoid contact with skin, eyes and clothing
 Avoid breathing vapors or mists
 Do not puncture or incinerate cans
 Wash thoroughly with soap and water after handling.
 Keep product and empty container away from heat and sources of ignition.
- Storage:** Store in original container in areas inaccessible to small children and pets.
 Store in cool/well-ventilated place
 CONTAINERS SHOULD BE KEPT OUT OF REACH OF CHILDREN.
 Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 55°C.
 Do not pierce or burn after use. Keep away from all sources of ignition.
 Fires involving flammable aerosols are severe and can spread very quickly. Warehouses and stores containing aerosols should therefore be separated from other areas by a fire resistant construction of at least one half hour duration.
 Stores should be well ventilated, particularly at low levels. The natural ventilation in a large open warehouse building will normally be suitable.
 Avoid the storage of aerosols in basements where practicable.

This product must be stored and handled in accordance with the NFPA and local Fire Code flammable liquids regulations.

EPA Registered Product: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³
n-butane 106-97-8	TWA: 1000 ppm	TWA: 1900 mg/m ³ TWA: 800 ppm
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Engineering Controls:	For occupational exposures, ensure adequate ventilation.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained
<u>Personal Protective Equipment</u>	
Respiratory Protection:	None required under normal usage. Use only with adequate ventilation. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapors generated by this product during a spill or other clean-up operations.
Eye/Face Protection:	Avoid contact with eyes Tightly fitting safety goggles
Hand Protection:	Avoid contact with skin Wear protective gloves/clothing
Skin and Body Protection:	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.
Hygiene Measures:	Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Appearance:	Aerosol
Colour:	Clear
Odour:	Characteristic of variant
pH	10.8 - 11.8
Flash Point:	25.6°C / 78°F (Concentrate)
Flammability Limits in Air:	No information available
Autoignition Temperature:	No information available.
Specific Gravity / Density [g/mL]:	7.1 - 7.5 lbs/gal
Vapour Pressure:	Not determined.
Solubility:	Water solubility: completely soluble.
<u>Explosion limits:</u>	
- upper:	No data available.
- lower:	No data available.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Stable up to 55 °C
Conditions to Avoid:	Heat, flames and sparks. Pressurised container. Protect from the sunlight and do not expose to temperatures exceeding 55° C (130° F). Extremes of temperature can occur in cars and near ovens and fireplaces. Do not place in contact with hot surfaces or near naked flames. Do not pierce or burn even after use. Do not spray on a naked flame, onto or near fire, or any incandescent material such as an electric fire.
Materials to Avoid:	Do not mix with other household chemicals
Hazardous Decomposition Products:	Oxides of carbon and unknown organic compounds. Thermal decomposition can lead to release of irritating gases and vapors
Polymerization:	Hazardous polymerization does not occur.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

11. TOXICOLOGICAL INFORMATION
PRODUCT TOXICITY DATA
LD₅₀ Oral: No information available

LD₅₀ Dermal: No information available

LC₅₀ Inhalation (Dust): No information available

LC₅₀ Inhalation (Vapor): No information available

ACUTE EFFECTS::
Eye Irritation Moderate eye irritation

Skin Irritation None expected during normal conditions of use.

Inhalation None expected during normal use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingestion Contains denatured ethyl alcohol.
May be harmful if swallowed.
See Section 4 for First Aid instructions.

Sensitization Not expected to be a skin sensitiser.

Specific Effects
Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

Reproductive Toxicity: No information available.

Additional Toxicity Information: Information is based on available component data and toxicity result of similar products.

COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - with units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Ethanol	64-17-5	7060 mg/kg (Rat)		
n-butane	106-97-8			658 mg/L (Rat) 4 h
Propane	74-98-6			658 mg/L (Rat) 4 h

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

12. ECOLOGICAL INFORMATION**PRODUCT TOXICITY DATA****Ecotoxicity effects****Aquatic toxicity:** No information available**COMPONENT TOXICITY DATA***Ethanol*

64-17-5 (30 - 60 %)

Microtox

EC50 = 35470 mg/L 5 min

Water Flea

h LC50 48 9268 - 14221 mg/L

h EC50 24 10800 mg/L

h EC50 48 2 mg/L

Other Information**Ozone depletion potential; ODP;
(R-11 = 1)**

No information available.

Global Warming Potential (GWP):

No information available.

Additional Ecological Information:

Information given is based on data on the components and the ecotoxicology of similar products.

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused
products:**

Dispose of in accordance with local, state and federal regulations.

Contaminated Packaging:

Do not re-use empty containers. DO NOT PUNCTURE OR INCINERATE! Dispose of empty container in household trash.

Waste Disposal:

Container disposal: Empty containers may be included with domestic refuse for disposal to a landfill. This container may also be recycled in communities where aerosol container recycling is available. Before offering for recycling, empty the can or use the product according to the label instructions.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

14. TRANSPORT INFORMATION

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

DOT

Proper shipping name: Consumer Commodity
UN-No: UN1950
Hazard Class Not applicable
Subsidiary Class Not applicable
Packing group: Not applicable
Reportable Quantity (RQ): Not applicable
Description: UN 1950, Aerosols, Flammable, Class 2.1
 Re-classed as Consumer Commodity ORM-D
Emergency Response Guide No:126 / 171

TDG

Proper shipping name: Consumer Commodity / Limited Quantity / LTD. QTY
UN-No: UN1950
Packing group: Not applicable
Description: UN 1950, Aerosols, Flammable, Class 2.1
 Re-classed as Consumer Commodity

MEX

Not applicable.

ICAO

See IATA

IATA

UN-No: UN1950
Proper shipping name: Aerosols, flammable / Consumer Commodity
Hazard Class 2.1 / (9 if shipped as a Consumer Commodity)
Subsidiary Class Not applicable
Packing group: Not applicable
Description: UN1950, Aerosols, flammable, Limited Quantity or Consumer Commodity, ID8000 if acceptable to airline (500 ml. / 17 fl. oz. or less).
Maximum quantity See DG List.

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2
Subsidiary Risk: Not applicable
UN-No UN1950
Packing Group Not applicable
IMDG Page: See IMDG Code.
Marine Pollutant Not applicable
EmS: F-D, S-U
MFAG: Not applicable.
Maximum quantity: See IMDG Code.

RID

Not applicable.

ADR

Not applicable.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

ADN Not applicable.

15. REGULATORY INFORMATION

Chemical Name	PICCS	TSCA	DSL	NDSL	ENCS	CHINA	AICS	EINECS/ ELINCS	South Africa STELs
Ethanol		Present	X		X	X	X	200-578-6	
n-butane		Present	X		X	X	X	203-448-7	
Propane		Present	X		X	X	X	200-827-9	

U.S. Regulations:
Ethanol - 64-17-5

NJRTK X
Appearance Colorless, clear, volatile liquid
SARA313 None
California Prop. 65 Developmental

n-butane - 106-97-8

NJRTK X
Appearance Colorless gas
SARA313 None
California Prop. 65 Not Listed

Propane - 74-98-6

NJRTK X
Appearance Colorless gas
SARA313 None
California Prop. 65 Not Listed

WHMIS (Canada)

WHMIS Hazard Class B5 Flammable aerosol

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

16. OTHER INFORMATION

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



HMIS (U.S.A.):

Health Hazard	1
Flammability:	3
Physical hazards	0
PERSONAL PROTECTION	B

NFPA Aerosol Level: Flammability Rating 1, per NFPA 30B.

Reason for revision: This is a MSDS for EPA Registration, not to be used for distribution with the final retail product.

Additional advice: This product should only be used as directed on the label and for the purpose intended.

Prepared by: Reckitt Benckiser (U.S.) Inc.
Product Safety Department
1 Philips Parkway
Montvale, New Jersey 07646-1810 USA
FAX: 201-476-7770

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.