

### MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** 

LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) All Purpose Cleaner Complete

Clean Trigger with Bleach

CAS#

Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS 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 regulation.

Product Use Cleaner

Distributed by Reckitt Benckiser

Morris Corporate Center IV 399 Interpace Parkway

P.O. Box 225

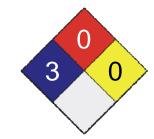
Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-338-6167 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





### 2. Hazards Identification

### **Emergency overview**

This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Vapors may irritate. Use only in well-ventilated areas. Avoid prolonged breathing of vapors. Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease. HARMFUL IF SWALLOWED. For sensitive skin or prolonged use, wear rubber gloves.

PHYSICAL AND CHEMICAL HAZARDS: This Product Contains Bleach. Do not mix with other household chemicals such as products containing ammonia, toilet bowl cleaners or acid cleaners as hazardous gases may be released.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

Eyes Causes eye irritation. Do not get into eyes.

SkinCauses skin irritation. Do not get on skin or clothing.InhalationOdors may irritate. Avoid prolonged breathing of vapor.

**Ingestion** Harmful if swallowed.

Target organs Eyes. Respiratory system. Skin.

Chronic effects The finished product is not expected to have chronic health effects.

#20462 Page 1 of 7 Issue date 31-Jul-2013

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Potential environmental effects

See section 12.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium hypochlorite	7681-52-9	1 - 5
Sodium hydroxide	1310-73-2	0 - 1

### 4. First Aid Measures

First aid procedures

**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.

**Skin contact** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty

of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**Inhalation** If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control

center or doctor for further treatment advice.

**Ingestion** If swallowed, call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to

do so by a poison control center or doctor. Do not give anything by mouth to an

unconscious person.

Have the product container or label with you when calling a poison control center or

doctor, or going for treatment. Symptoms may be delayed.

Notes to physician

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.

## 5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria.

**Extinguishing media** 

Suitable extinguishing media Water spray. Foam. Dry chemical. Carbon dioxide.

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: Oxygen. Chlorine gas.

**Explosion data** 

Sensitivity to mechanical impact Not available
Sensitivity to static discharge Not available

# 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** Do not discharge into lakes, streams, ponds or public waters.

Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

#### Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

## 7. Handling and Storage

Handling WARNING.

Causes eve and skin irritation.

Do not get this material in your eyes, on your skin, or on your clothing.

Use only in well-ventilated areas. Do not breathe vapours or spray mist.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product. For sensitive

skin or prolonged use, wear rubber gloves.

AVOID CONTACT with clothes, fabric, carpet, wood, rubber, painted and paper surfaces,

and finished floors.

Not recommended for use by persons with heart conditions or chronic respiratory

problems such as asthma, emphysema or obstructive lung disease.

Store in original container in a cool, secure area inaccessible to children and pets. Keep

securely closed. Refillable container. Do not reuse or refill except as described in the directions for use. Refill trigger bottle only with this product. If not refilling, discard in

trash or offer for recycle.

It is a violation of Federal law to use this product in a manner inconsistent with its

labeling.

## 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
Sodium hydroxide	ACGIH-TLV	
	Ceiling: 2 mg/m3	
	OSHA-PEL	
	TWA: 2 mg/m3	
Sodium hypochlorite	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	

**Engineering controls** 

Storage

Personal protective equipment

Use only under good ventilation conditions or with respiratory protection.

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

**Eye / face protection** Avoid contact with eyes. Wear safety glasses with side shields. Emergency

responders should wear full eye and face protection.

Hand protection Avoid contact with the skin. For sensitive skin or prolonged use, wear rubber

gloves.

Emergency responders should wear impermeable gloves.

**Skin and body protection** As required by employer code.

Emergency responders should wear impermeable clothing and footwear when

responding to a situation where contact with the liquid is possible.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

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.

## 9. Physical and Chemical Properties

Clear **Appearance** Light Straw Color **Form** aqueous solution slight chlorine Odor Not available Odor threshold Physical state Liquid 12.5 (Basic) pН Not available Freezing point **Boiling** point Not available Not available Pour point **Evaporation rate** Not available

Flash point > 199.94 °F (> 93.3 °C) Tagliabue

Auto-ignition temperature Flammability limits in air, lower, %

by volume

Not available Not available

Flammability limits in air, upper, %

by volume

Not available

Vapor pressureNot availableVapor densityNot availableSpecific gravity1.044 (Water = 1)Octanol/water coefficientNot availableSolubility (H2O)Complete

## 10. Stability and Reactivity

Reactivity Do not mix with or use in conjunction with other household products.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other household chemicals, such as products containing ammonia, toilet

bowl cleaners, vinegars, or acidic cleaners or with other LYSOL® Brand products, as

hazardous gases may be released.

**Incompatible materials** Acids. Oxidizers. Ammonia.

Hazardous decomposition products May include and are not limited to: Chlorine gas. Oxygen.

## 11. Toxicological Information

Not available

Component analysis - LC50

Sodium hydroxide

Ingredient(s) LC50

Sodium hypochlorite > 5250 mg/m3 rat

Component analysis - Oral LD50

Ingredient(s) LD50

Sodium hydroxide Not available

Sodium hypochlorite 8200 mg/kg rat; 5800 mg/kg mouse

Effects of acute exposure

**Eye** Causes eye irritation. Do not get into eyes.

SkinCauses skin irritation. Do not get on skin or clothing.InhalationOdors may irritate. Avoid prolonged breathing of vapor.

**Ingestion** Harmful if swallowed.

**Sensitization**The finished product is not expected to have chronic health effects. **Chronic effects**The finished product is not expected to have chronic health effects.

#20462 Page 4 of 7 Issue date 31-Jul-2013

Carcinogenicity The finished product is not expected to have chronic health effects.

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 Not available

**Products** 

## 12. Ecological Information

**Ecotoxicity** See below

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data** 

Sodium hypochlorite 7681-52-9 24 Hr EC50 Skeletonema costatum: 0.095 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Sodium hypochlorite 7681-52-9 96 Hr LC50 Pimephales promelas: 0.06 - 0.11 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 4.5 - 7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.4 -

Pimephales promelas: 4.5 - 7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.4 0.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.28 - 1 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.05 - 0.771 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.03 - <0.19 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus

mykiss: 0.18 - 0.22 mg/L [static]

**Ecotoxicity - Water Flea - Acute Toxicity Data** 

Sodium hypochlorite 7681-52-9 96 Hr EC50 Daphnia magna: 2.1 mg/L; 48 Hr EC50 Daphnia magna: 0.033 - 0.044

mg/L [Static]

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Chemical fate information

Not available

Not available

Not available

Not available

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

Refillable container. Do not reuse or refill except as described in the directions for use. Refill trigger bottle only with this product. If not refilling, discard in trash or offer for

recycle.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

## 14. Transport Information

### **U.S. Department of Transportation (DOT)**

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity

#20462 Page 5 of 7 Issue date 31-Jul-2013

#### Transportation of Dangerous Goods (TDG - Canada)

UN 3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity.

**IMDG (Marine Transport)** 

UN 3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity.

IATA/ICAO (Air)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III

# 15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Product Registration: Registered with EPA, EPA Reg. No. 777-83

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ Sodium hypochlorite 7681-52-9 100 Lb final RQ; 45.4 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Sodium hydroxide 1310-73-2 Present Sodium hypochlorite 7681-52-9 Present

#### **CERCLA (Superfund) reportable quantity**

Sodium hypochlorite: 100.0000 Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Hazardous substance

State regulations This product is not subject to warning labeling under the California Proposition 65

regulation.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

1310-73-2 Sodium hydroxide Present Sodium hypochlorite 7681-52-9 Present U.S. - Louisiana - Reportable Quantity List for Pollutants

1000 Lb final RQ; 454 kg final RQ Sodium hydroxide 1310-73-2 Sodium hypochlorite 7681-52-9 100 Lb final RQ; 45.4 kg final RQ

U.S. - Massachusetts - Right To Know List

Sodium hydroxide 1310-73-2 Present Sodium hypochlorite 7681-52-9 Present

U.S. - Minnesota - Hazardous Substance List

Sodium hydroxide 1310-73-2 Present Sodium hypochlorite 7681-52-9 Present U.S. - New Jersey - Right to Know Hazardous Substance List Sodium hydroxide 1310-73-2 sn 1706 Sodium hypochlorite 7681-52-9 sn 1707

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water) Sodium hypochlorite 7681-52-9 100 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium hydroxide Environmental hazard 1310-73-2 Sodium hypochlorite 7681-52-9 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

1310-73-2 Toxic (caustic); Flammable (caustic) Sodium hydroxide

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\* Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

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

Yes

hazards that exist.

**Further information** LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) All Purpose Cleaner Complete Clean

Trigger with Bleach, 22 fl oz, 32 fl oz - 0003419v3.0

Issue date 31-Jul-2013 Effective date 01-Aug-2013

Prepared by Reckitt Benckiser Regulatory Department 800-333-3899

For an updated MSDS, please contact the supplier/manufacturer listed on the first Other information

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

#20462 Page 7 of 7 Issue date 31-Jul-2013