SAFETY DATA SHEET

This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2012) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 170041
- ZEP NUMBER: A00224
- PRODUCT NAME: **Hospital Surface Disinfectant Spray**

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

- RECOMMENDED USE: Cleaning and disinfecting of surfaces.
- IDENTIFIED USERS: For sale to, use and storage by service persons only.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/ SUPPLIER: WAXIE Sanitary Supply
- ADDRESS: 9353 Waxie Way; San Diego, CA 92123-1036
- BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

1.4 OTHER PERTINENT INFORMATION

- This product is sold and used in relatively small volumes. This SDS has been developed to address safety concerns affecting small volume handling situations and those involving warehouses and workplaces where large numbers of these items are stored or distributed.

SECTION 2: HAZARD IDENTIFICATION

2.1 EMERGENCY OVERVIEW

Appearance	Aerosol containing a liquefied gas
Color	Colorless, light yellow
Odor	Pleasant

2.2 GHS CLASSIFICATION

OSHA/HCS Status

Classification of the Substance or Mixture: Flammable Aerosol (Category 2); Gases under pressure (Liquefied gas); Eye irritation (Category 2A)

2.3 LABEL ELEMENTS (suggested)

Hazard Pictograms:

Signal Word: Danger.

Hazard Statements: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation.

SECTION 2: HAZARD IDENTIFICATION (Continued)

Precautionary Statements

Prevention:	Keep out of reach of children. Read label before use. Keep away from heat, hot surfaces, sparks, open flames. Do not spray on an open flame or other ignition source. No smoking. Pressurized container: Do not pierce or burn, even after use. Wash skin thoroughly after handling. Wear eye protection/ face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Disposal:	Dispose of contents/container in accordance with local regulation.

2.4 OTHER PERTINENT HAZARDS NOT OTHERWISE CLASSIFIED

- **Carcinogenicity:**

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

- **Hazardous Components:**

CHEMICAL	CAS NUMBER	% (v/v)
Ethanol	67-15-5	>= 30 - < 50
Butane	106-97-8	>= 10 - < 20
Propane	74-98-6	>= 1 - < 5
Propan-2-ol	67-63-0	>= 1 - < 5
Sodium nitrite	7632-00-0	>= 0.1 - < 1

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General advice:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact:	If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes.
In case of eye contact:	Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
If swallowed:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control

center. Take victim immediately to hospital.

SECTION 5: FIREFIGHTING MEASURES

5.1 DESCRIPTION OF FIREFIGHTING MEASURES

Suitable extinguishing media:
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
Water spray jet

Unsuitable extinguishing media:
High volume water jet

Specific hazards during firefighting:
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:
Carbon dioxide (CO2). Carbon monoxide. Smoke.

Specific extinguishing methods:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information:
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment for firefighters:
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Advice on safe handling:
Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Do not breathe vapors or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Always replace cap after use.

Conditions for safe storage:
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Keep in a dry, cool and well-ventilated place.

Materials to avoid:
Oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- **AIRBORNE EXPOSURE LIMITS:**

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Ethanol	STEL = 1000 ppm	TWA = 1000 ppm	TWA = 1000 ppm	NE
Propan-2-ol	TWA= 200 ppm; STEL = 400 ppm	TWA = 400 ppm	TWA= 400 ppm; STEL = 500 ppm	NE
Propane	Minimal Oxygen Content (19.5% at Sea Level)	TWA = 1000 ppm	TWA = 1000 ppm	NE
Butane	STEL = 1000 ppm	NE	TWA = 800 ppm	NE

- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** The following BEIs have been established for components of this product.
  - **Propan-2-ol:** Acetone in Urine; End of Shift at End of Work Week; 40 mg/L

8.2 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Safety glasses
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol containing a liquefied gas.
Color:	Clear, light yellow.
Odor:	Characteristic.
Odor Threshold:	No data available.
pH:	10-11
Melting point/freezing point:	No data available.
Boiling point:	No data available.
Flash point:	Not applicable.
Evaporation rate:	No data available.
Flammability (solid, gas):	Flammable aerosol.
Upper explosion limit:	No data available.
Lower explosion limit:	No data available.
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Density:	0.895 g/cm3
Solubility(ies)/Water solubility	Soluble.
Solubility in other solvents	Not determined.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Thermal decomposition:	No data available.
Viscosity - Viscosity, kinematic:	No data available.
Heat of combustion:	24.20 kJ/g

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY, STABILITY, AND CONDITIONS TO AVOID

Reactivity:	Stable.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Vapors may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid:	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials:	Oxidizing agents; reducing agents.
Hazardous decomposition products:	Carbon monoxide; carbon dioxide (C02) Nitrogen Oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON ACUTE EFFECTS

PRODUCT

Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

COMPONENTS

Ethanol

Acute oral toxicity:	LD50 rat: 6,060 mg/kg
Acute inhalation toxicity:	LC50 rat: 124.7mg/l Exposure time 4 h

Propan-2-ol

Acute oral toxicity	LD50, Oral, Rat: 4, 396 mg/kg Method: Calculation Method

Propane

Acute inhalation toxicity	LC50 mouse: 1,237 mg/l Exposure time: 2 h LC50 rat: 658 mg/l Exposure time: 4 h LC50 rat: 1,355 mg/l

Butane

Acute inhalation toxicity	LC50 mouse: 1,237 mg/l Exposure time: 2 h LC50 rat: 1,355 mg/l

11.2 INFORMATION ON OTHER HEALTH EFFECTS

PRODUCT

Skin corrosion/Irritation:	Remarks: May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation:	Remarks: Irritating to eyes.
Respiratory or skin sensitization:	No data available.

COMPONENTS

Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT - single exposure:	No data available.
STOT - repeated exposure:	No data available.
Aspiration toxicity:	No data available.
FURTHER INFORMATION	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY INFORMATION

Ecotoxicity:	No data available.	
Persistence and degradability:	No data available.	
Bioaccumulative potential – PRODUCT:	Partition coefficient: n-octanol/water	No data available
Bioaccumulative potential – BUTANE:	Partition coefficient: n-octanol/water	Pow: 2.89
Mobility in soil:	No data available.	
Other adverse effects:	No data available.	

12.2 OTHER PRODUCT INFORMATION

REGULATION:	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks :	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, State and Federal regulations.
- Dispose of unused product properly. Do not re-use empty containers.

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** D001.

SECTION 14: TRANSPORT INFORMATION

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

  ORM-D, CONSUMER COMMODITY

- **CANADIAN TRANSPORTATION INFORMATION**: This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards. Use the following information:

  UN 1950, Aerosols, Flammable, 2.1 (Limited Quantity)

- **IATA DESIGNATION**: This product is regulated as dangerous goods by the International Air Transport Association. Use the following information:

  UN 1950, Aerosols, Flammable, 2.1 (Limited Quantity)

- **IMDG DESIGNATION**: This product is regulated as dangerous goods by the International Maritime Organization. Use the following information:

  UN 1950, Aerosols, Flammable, 2.1 (Limited Quantity)

SECTION 15: REGULATORY INFORMATION

15.1 UNITED STATES REGULATIONS

- **EPCRA - Emergency Planning and Community Right-to-Know Act**
- **CERCLA Reportable Quantity:** Some items listed are below limits and are not subject to GHS reporting requirements for this formulation.

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5000	*
Sodium Nitrite	7632-00-0	100	*

**Calculated RQ exceeds reasonably attainable upper limit.*

- **SARA 304 Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.
- **Other Important Regulations:**

SARA 311/312 Hazards: Fire Hazard; Sudden Release of Pressure Hazard; Acute Health Hazard

SARA 302: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65: Product contains amounts of the following items below GHS reporting limits:

biphenyl-2-ol – 90-43-7

WARNING! This product contains a chemical known to the State of California to cause cancer.

15.2 OTHER REGULATIONS

TSCA	On TSCA Inventory.
DSL	This product contains one or several components that are not on the Canadian DSL nor NDSL.
AICS	Not in compliance with the inventory.
NZIoC	Not in compliance with the inventory.
PICCS	Not in compliance with the inventory.
IECSC	Not in compliance with the inventory.

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- **DATE OF REVISION:** January 13, 2016
- **SUPERCEDES**: April 29, 2015
- **CHANGE INDICATED:** Format alterations.

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEET FOR MANUFACTURER PRODUCT.

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Health	**2**	
Flammability	**3**	
Physical Hazard	**2**	
Protective Equipment	**B/C**	HMIS Personal Protective Equipment Rating: Occupational Use situations: B - Safety glasses and gloves. If splashes or sprays can occur: C– Add body protection.

SECTION 16: OTHER INFORMATION (Continued)

16.4 PERSONAL PROTECTION SYMBOLS

Hand Protection 

Eye/Face Protection 

Body Protection (When splashes/sprays may occur) 

16.5 NFPA INFORMATION

NFPA Rating

NFPA Classification Flammable Aerosol

16.6 DISCLAIMER

WAXIE Sanitary Supply makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of their own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by WAXIE Sanitary Supply as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does WAXIE Sanitary Supply assume any liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. WAXIE Sanitary Supply does not recommend blending this product with any other chemicals. All information, recommendations and data contained herein concerning this product are based upon information available at the time of writing from recognized technical sources.

16.7 ABBREVIATIONS AND ACRONYMS

ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. REACH: European Union regulation, Registration, Evaluation, Authorization and Restriction of Chemical substances.

SECTION 2: CAS Number: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical.

SECTION 5: NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (Fl.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: Fl.P. below 73°F and BP below 100°F. Class IB: Fl.P. below 73°F and BP at or above 100°F. Class IC: :Fl.P. at or above 73°F and BP at or above 100°F. Class II: : Fl.P. at or above 100°F and below 140°F. Class IIIA: Fl.P. at or above 140°F and below 200°F. Class IIIB: Fl.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. *Note*: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m^3: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit. EL: Exposure Limit (United Kingdom). Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKs)

SECTION 9: pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs.

SECTION 9 (Continued): LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.≈: Approximately symbol. VOC: Volatile Organic Compound.

SECTION 11: CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LD*xx*or LC*xx*: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (*xx*) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TD*xx*or TC*xx*: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (*xx*) of exposed test animals by the designate route of administration.

SECTION 12: EC50: Effect Concentration (on 50% of study group); BOD: Biological Oxygen Demand. N/LOEC: No/Lowest Observable Effect Concentration.

SECTION 13: RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.

SECTION 15: CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. TSCA: Toxic Substances Control Act: Rules regulating the manufacture and sale of chemicals found in 40 CFR 700-766. DSL/NDSL: Canadian Domestic Substances and Non-Domestic Substances Lists.

SECTION 16: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.