

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

1. Identification

- **Product Identifier**
- **Name of the product:** Ready to Use Surface Sanitizer
- **Recommended Use:** Sanitizer

- **Details of the Supplier of the Safety Data Sheet:**
Ramsay Browne Chemical & Co.
PO Box 6425
Moraga, CA 94570
General Number: (925)280-1661
- **Manufacturer:**
B & L Neeley, Inc
792 E. Louise Avenue
Manteca, CA 95336
General Number: (209) 823-3571
- **Emergency telephone number: (800) 255-3924 (24 hour) CHEMTEL**

2. Hazard(s) Identification

GHS SIGNALWORD: DANGER!

GHS Symbol:



GHS HAZARD STATEMENT:

H302 + H312 + H332 – Harmful if swallowed, in contact with skin or if inhaled.

H314 – Causes severe skin burns and eye damage.

H400 – Very toxic to aquatic life.

H411 – Toxic to aquatic life with long lasting effects.

GHS Precautionary Statement(s) – Prevention:

P210 – Keep away from heat, hot surfaces, open flames, sparks. – No smoking.

P233 – Keep container tightly closed.

P260 – Do not breathe mist, vapors, or spray.

P264 – Wash skin and contaminated clothing thoroughly after handling.

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

2. Hazard(s) Identification (continued)

P273 – Avoid release to the environment.

P280 – Wear gloves, protective clothing, and eye and face protection.

GHS Precautionary Statement(s) – Response:

P305 + P351 + P338 – If in Eyes – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for several minutes.

P310 – Immediately call a POISON CENTER or Physician.

P301 + P330 + P331 – If Swallowed: Rinse mouth several times. Do NOT induce vomiting.

P303 + P361 + P353 – If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P363 – Wash contaminated clothing before reuse.

P304 + P340 – If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P391 – Collect spillage

GHS Precautionary Statement(s) – Storage:

P405 – Store in a secure manner.

GHS Precautionary Statement(s) – Disposal:

P501 – Dispose of contents and container in accordance with applicable local, regional, national, and/or international.

3. Composition / Information on ingredients

Name:	CAS #:
Quaternary ammonia Benzyl (C12-C16) dimethyl, chloride	68424-85-1
N,N-Dialkyl (C8-C10)-N,N-dimethylammonium chloride	68424-95-3
Ethanol	64-17-5

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

4. First-aid measures

Emergency and First Aid Procedures:

EXTERNAL:

If the body or clothing comes in contact with this chemical or its diluted water solution, remove the clothing immediately, while flushing affected body parts with large quantities of clean water. Wash body part thoroughly. Thoroughly clean contaminated clothing and boots before re-use, or discard. Contact a physician immediately.

EYES:

Remove contact lenses if present and easy to do. Flush freely with clean water for at least 15 minutes. Hold eye lids open during this flushing with water. Contact a physician immediately.

INTERNAL:

DO NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Contact a POISON CENTER or a doctor/physician immediately.

INHALATION:

Remove to fresh air. Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration, preferably mouth to mouth. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention. Contact a physician immediately.

MEDICAL ATTENTION AND SPECIAL TREATMENT:

Treat symptomatically.

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

5. Firefighting measures

Autoignition Temperature:	No data available
Flammable Limits in Air, % by Vol.:	No data available
Lower:	No data available
Upper:	No data available
Extinguishing Media:	Use dry chemical, CO ₂ , water spray (fog) or foam. Cool closed containers exposed to fire with water.
Special Fire Fighting Procedures:	COMBUSTIBLE LIQUID AND VAPOR. Keep away from heat, sparks and flame. May emit toxic fumes under fire conditions. In a fire or if heated, a pressure increase will occur and the container may burst.

6. Accidental release measures

Emergency procedures and Protective Equipment:

Make sure the area is clear of all unprotected personnel. Eliminate all ignition sources. If contamination of sewers or waterways has occurred advise local emergency services. Remove all sources of ignition. Ventilate the area. Wear Proper Protective Equipment as listed in section "8" of the SDS.

Spill clean-up and Personal Precaution:

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Stop leak if without risk. Make sure the area is clear of all unprotected personnel. Absorb with DRY earth, sand or other non-combustible material. Do NOT touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed.

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

7. Handling and storage

Handling:

Keep away from flammable substance, incompatible substances, and sources of ignition – No smoking. Avoid sun rays, heat, heat effect. DO NOT breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from metallic salts, alkalis, and flammables.

8. Exposure controls / personal protection

Exposure limits:

Data for the Mixture is not available. OSHA PEL for Ethanol: 1000 ppm

Engineering Controls:

Well ventilated area for evacuation of any mist, or local exhaust sufficient to minimize exposure below limits.

Personal Protective Equipment:

Eye protection:

Use chemical splash goggles or face shield.

Skin and body protection:

Wear protective clothing. Suitable materials are: PVC, neoprene, nitrile rubber (NBR), Rubber or plastic boots. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Do not inhale vapor, aerosols, mist. Ensure there is good room ventilation. Avoid contaminating clothes with product. Immediately change moistened and saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Any contaminated protective equipment is to be cleaned after use.

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

8. Exposure controls / personal protection (continued)

Protective measures:

Handle in accordance with good industrial hygiene and safety practices. The workplace related airborne concentrations have to be kept below of the indicated exposure limits. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, mist), a NIOSH approved respirator should be used. Wear suitable protective clothing, gloves and eye/face protection.

9. Physical and chemical properties

Physical State:	Liquid
Color:	Colorless
Odor:	Mild
Odor Threshold:	Data not Available
Boiling Point, 760 MM HG:	93.3 °C (200 °F)
Specific Gravity (H2)=1):	0.937
pH:	6.0-8.0
Vapor Density (Air=1)	Data not available
% Volatiles by Vol.:	Data not available
Melting Point:	N/A
Vapor Pressure:	Data not available
Solubility in H2O, % by WT:	100%
Evaporation Rate (Butyl Acetate=1):	As water

10. Stability and reactivity

Chemical Stability:

This product is stable under normal conditions of temperature and pressure.

Incompatibility:

Slightly reactive or incompatible with the following materials: oxidizing materials and reducing materials. Protect from temperature extremes and direct sunlight.

Hazardous Decomposition:

Carbon oxides (CO, CO₂) nitrogen oxides (NO, NO₂ etc), hydrogen chloride, and Ammonia.

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information

Information on likely routes of exposure: Eyes, Skin, Ingestion, Inhalation

Acute toxicity:

Acute oral toxicity:

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

Acute dermal toxicity:

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

IARC: No component of this product at levels greater than or equal to 0.1% is identified a probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: Confirmed animal carcinogen with unknown relevance to humans.

- Ethanol (CAS No. 64-17-5)

Further information

Remarks: Information given is based on data on the components and the toxicology of similar products.

The following toxicological data refer to:

Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Acute toxicity:

Acute oral toxicity:

- LD50 (Rat): 238 mg/kg
- Method: OECD Test Guideline 401
- GLP: Yes

Acute dermal toxicity:

- LD50 (Rabbit): 3,342 mg/kg
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Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Skin corrosion/irritation:

Species: Rabbit

Exposure time: 3 min.

Assessment: Causes burns

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: Yes

Respiratory or skin sensitization:

Test Type: Buehler testing Species: Guinea Pig

Assessment: Did not cause sensitization on laboratory animals

Method: US-EPA

Result: Not sensitizing

GLP: Yes

Test Type: Buehler test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: not sensitizing

Germ cell mutagenicity:

Genotoxicity in vitro:

Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: Yes

Method: OECD Test Guideline 471

Result: negative

GLP: Yes

Test Type: Chromosome aberration test in vitro

Species: Chinese hamster ovary cells

Metabolic activation: Yes

Result: negative

GLP: Yes

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Test Type: gene mutation test
Species: Chinese hamster ovary cells
Metabolic activation: Yes
Result: negative
GLP: Yes

Genotoxicity in vivo:

Test Type: Chromosome aberration in vivo
Species: Rat
Application Route: Oral
Dose: 600 mg/kg
Method: OECD Test Guideline 475
Result: negative
GLP: Yes

The following toxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides(CAS-No.: 68424-85-1)

Acute toxicity:

Acute oral toxicity:

LD50 (Rat): ca. 344 mg/kg
GLP: No

Acute dermal toxicity:

LD50 (Rabbit, male and female): 3,412 mg/kg
Method: OPPTS 870.1200
GLP: No

Skin corrosion/irritation:

Species: Rabbit
Exposure time: 4 hr
Method: DOT
Result: Corrosive
GLP: No

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Respiratory or skin sensitization:

Test Type: Buehler test

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

Method: OECD Test Guideline 406

Result: Not sensitizing

GLP: Yes

Germ cell mutagenicity:

Genotoxicity in vitro:

Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: Yes

Method: OECD Test Guideline 471

Test Type: Buehler test

Result: Not mutagenic

GLP: Yes

Test Type: Chromosome aberration test in vitro

Species: Human lymphocytes

Metabolic activation: Yes

Method: OECD Test Guideline 473

Result: non clastogenic

GLP: Yes

Test Type: gene mutation test

Species: Chinese hamster ovary cells

Metabolic activation: Yes

Method: OECD Test Guideline 476

Result: not mutagenic

GLP: Yes

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Test Type: unscheduled DNA synthesis assay

Species: Rat hepatocytes

Method: OECD Test Guideline 482

Result: negative

GLP: Yes

Genotoxicity in vivo:

Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: LONZA-N11.00522975

Application Route: oral (gavage)

Method: OECD Test Guideline 474

GLP: Yes

Reproductive toxicity:

Effects on fertility:

Test Type: Two-generation study

Species: Rat, female

Application Route: Ingestion

Dose: 0-300-1000-2000 ppm

General Toxicity – Parent: NOAEL: 67 – 106 mg/kg body weight

General Toxicity F1: 54 – 86 mg/kg body weight

General Toxicity F2: NOAEL: 54 – 86 mg/kg body weight

Fertility: NOAEL: 112 – 161 mg/kg body weight

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

GLP: Yes

Test Type: Two-generation study

Species: Rat, male

Application Route: Ingestion

Dose: 0-300-1000-2000 ppm

General Toxicity – Parent: NOAEL: 51 – 102 mg/kg body weight

General Toxicity F1: NOAEL: 41 – 83 mg/kg body weight

General Toxicity F2: NOAEL: 41 – 83 mg/kg body weight

Fertility: NOAEL: 139 – 198 mg/kg body weight

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

GLP: Yes

Effects on fetal development:

Species: Rat

Strain: Sprague-Dawley

Application Route: oral(gavage)

Dose: 0-10-30-100 milligram per kilogram

General Toxicity Material: NOEL: 8.1 mg/kg bw/day

Developmental Toxicity: NOAEL: 81 mg/kg body weight

Method: OECD Test Guideline 414

Result: No effects on fertility and early embryonic development were detected

GLP: Yes

Repeated dose toxicity:

Species: Dog, female

NOAEL: 45 mg/kg

Application Route: Dietary

Exposure time: 90 d

Number of exposures: daily

Dose: 0-500-1500-3000 ppm

Species: Dog, male

NOAEL: 50 mg/kg

Application Route: Dietary

Exposure time: 90 d

Number of exposures: daily

Dose: 0-500-1500-3000 ppm

Species: Rat, male

NOAEL: 31 mg/kg

Application Route: Dietary

Exposure time: 90 d

Number of exposures: daily

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

11. Toxicological information (continued)

Dose: 0-6-31-62 mg/kg
Method: OECD Test Guideline 408
GLP: Yes

Species: Rat, female
NOAEL: 31 mg/kg
Application Route: Dietary
Exposure time: 90 d
Number of exposures: daily
Dose: 0-8-38-77 mg/kg
Method: OECD Test Guideline 408
GLP: Yes

12. Ecological information

Ecotoxicity:

Toxicity to fish: No data available
Biodegradability: No data available

Components:

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides:

Partition coefficient: n-octanol/water
Log Pow: 2.59 (20°C)
pH: 7
Method: Calculation method

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Partition coefficient: n-octanol/water
Log Pow 2.75 (20°C)
Method: OECD Test Guideline 107
GLP: Yes

Ethanol:

Partition coefficient: n-octanol/water
Log Pow: -0.3

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

12. Ecological information (continued)

Mobility in soil:

Distribution among environmental compartments: no data available.

Other adverse effects

Results of PBT and vPvB assessment: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential:

Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the US Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A & B).

Additional ecological information: Information given is based on data on the components and the ecotoxicology of similar products

The value is given in analogy to the following substance: Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

The following ecotoxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides(CAS-No.: 68424-85-1)

Ecotoxicity:

Toxicity to fish:

NOEC (Pimephales promelas (fathead minnow)): 0.0322 mg/l

Exposure time: 34 d

Test Type: Early-life stage

Analytical monitoring: Yes

Method: EPA-FIFRA

GLP: Yes

NOEC (Lepomis macrochirus (Bluegill sunfish)): 0.456 mg/l

Exposure time: 96 h

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

12. Ecological information (continued)

Analytical monitoring: Yes

Method: US-EPA

GLP: Yes

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 0.515 mg/l

Exposure time: 96 h

Analytical monitoring: Yes

Method: US-EPA

GLP: Yes

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 0.016 mg/l

Exposure time: 48 h

Test Type: Immobilization

Analytical monitoring: Yes

Method: OECD Test Guideline 202

GLP: Yes

NOEC (*Daphnia magna* (Water flea)): ≥ 0.00415 mg/l

Exposure time: 21 d

Test Type: Reproduction testing Analytical monitoring: Yes

Method: EPA-FIFRA

GLP: Yes

Toxicity to algae:

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.049 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition testing Analytical monitoring: Yes

Method: OECD Test Guideline 201

GLP: Yes

EC50 (*Lemna gibba*): 0.12 mg/l

Exposure time: 7 d

Test Type: Growth inhibition

Analytical monitoring: Yes

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

12. Ecological information (continued):

Method: US-EPA

ErC50 (algae): 0.089 mg/l

Exposure time: 96 h

Test Type: Growth inhibition

Analytical monitoring: Yes

Method: US-EPA

GLP: Yes

M-Factor (Acute aquatic toxicity): 10

M-Factor (Chronic aquatic toxicity): 1

Toxicity to microorganisms:

- EC50 (activated sludge): 7.75 mg/l
- Exposure time: 3 h
- Test Type: Respiration inhibition
- Method: OECD Test Guideline 209
- GLP: Yes

Toxicity to soil dwelling organisms:

- Test Type: Acute toxicity
- LC50 (*Eisenia fetida* (earthworms)): 7,070 mg/kg
- Exposure time: 14 d
- Method: OECD Test Guideline 209
- GLP: Yes

- Test Type: Soil Microflora
- EC50: > 1,000 mg/kg
- Exposure time: 28 d
- Method: OECD Test Guideline 216
- GLP: Yes

Plant toxicity:

- EC50: 277 – 1,900 mg/kg
- Exposure time: 14 d
- End point: Growth inhibition
- Method: OECD Test Guideline 208

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

12. Ecological information (continued):

Persistence and degradability:

Biodegradability:

- Test Type: CO₂ Evolution testing Concentration: 5 mg/l
- Result: Readily biodegradable
- Biodegradation: 95.5%
- Exposure time: 28 d
- Method: OECD Test Guideline 301B
- GLP: No

Stability in water:

- Degradation half life: > 1 y (20°C)
- pH: 7
- Method: Directive 67/548/EEC, Annex V, C.10
- GLP: Yes

Bioaccumulative potential:

Bioaccumulation:

- Species: Lepomis macrochirus (Bluegill sunfish)
- Bioconcentration factor (BCF): 79
- Exposure time: 35 d
- Concentration: 0.076 mg/l
- Method: US-EPA
- GLP: Yes

Mobility in soil:

Distribution among environmental compartments:

- Absorption/desorption
- Medium: Soil
- Koc: 282624 L/kgKd: 13,630, log Kd: 3.13
- Method: OECD Test Guideline 106

Other adverse effects:

Results of PBT and vPvB assessment: Non-classified vPvB substance Non-classified PBT substance

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

12. Ecological information (continued):

Ecotoxicity:

The following ecotoxicological data refer to:

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides(CAS-No.: 68424-95-3)

M-Factor (Acute aquatic toxicity): 10

M-Factor (Chronic aquatic toxicity): 1

Biodegradability:

- Test Type: CO2 Evolution test Result: Readily biodegradable
- Biodegradation: 80.92%
- Exposure time: 28 d

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects:

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information: Information given is based on data obtained from similar substances.

13. Disposal considerations

Waste Disposal Methods:

The user of this material has the responsibility to dispose of unused material, residues, and containers in accordance with Federal, State, and local regulations.

14. Transport information

DOT

"Not Regulated" 14. Transport information (continued)

Environmental hazards: No

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

15. Regulatory information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Registration number: 6836-70-58783

Signal word: DANGER!

Hazard statements:

- Harmful if swallowed
- Harmful if absorbed through skin
- Corrosive – Causes skin burns
- Corrosive – causes irreversible eye damage

EPCRA – Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethanol	64-17-5	100	6666

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

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.

15. Regulatory information (continued)

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the US Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A & B).

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

This product does not contain any hazardous air pollutants (HAP), as defined by the US Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the US Clean Air Act Section 112® for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the US Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Ethanol	64-17-5	>= 1 - < 5%

This product does not contain any VOC exemptions listed under the US Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the US Clean Water Act, Section 311, Table 117.3

This product does not contain any Hazardous Substances listed under the US Clean Water Act, Section 311, Table 116.4A

This product does not contain any toxic pollutants listed under the US Clean Water Act Section 307

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Federal Regulatory Information: this product is EPA Regulated; EPA regulation number is 6836-70-58783

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

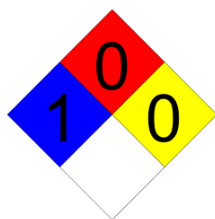
Reviewed on 04/03/2020

16. Other information

National Fire Protection Association (NFPA)

NFPA

Health	1
Flammability	0
Instability	0
Special Hazard	-



Full text of other abbreviations

ACGIH: US ACGIH Threshold Limit Values

NIOSH/GUIDE: US NIOSH: Pocket Guide to Chemical Hazards

OSHA_TRANS: US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Z1A: IS OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise

Safety Data Sheet (SDS)

Ready to Use Surface Sanitizer

Issue date 07/17/2019

Reviewed on 04/03/2020

16. Other information (continued)

Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Note:

The above information is accurate to the best of our knowledge. However, since the safety data standards and the government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, we make no warranty, either expressed or implied with respect to the completeness or continuing accuracy of the information contained herein and disclaim all liability for reliance thereon. Furthermore, it is the buyer's responsibility to ensure that its' activities comply with Federal, State, and local laws.

B & L Neeley has not provided percent of items noted in section 3: composition information or ingredients to protect the trade secret concentration of the product. As per OSHA 29 CFR 1910.1200 Appendix D, all ingredients of the product have been noted in section 3 as required.

SDS Revision Date: 04/02/20