

SAFETY DATA SHEET

1. Identification

Product identifier: BROAD SPECTRUM GERMICIDAL DISINFECTANT HEALTH CARE WIPES
EPA# 6836-340-40976

Other means of identification

SDS number: RE1000043135

Recommended restrictions

Product Use: Disinfectant
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: KANDEL & SON, INC.
Address: 155 DUPONT STREET
PLAINVIEW, NY 11803
Telephone: (516) 931-4455
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Environmental Hazards

Acute hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Toxic to aquatic life.

Precautionary Statements

Prevention: Avoid release to the environment.

Response: If skin irritation occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	0.1 - <1%
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)	7173-51-5	0.01 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. Store in original tightly closed container.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls	No data available.
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Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection:	Wear goggles/face shield.
Skin Protection	
Hand Protection:	No data available.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	Premoistened towel
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	Estimated 7 - 9
Melting point/freezing point:	No data available.

Initial boiling point and boiling range:	Estimated 100 °C
Flash Point:	Estimated > 93.3 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
LD 50 (Rat): 397.5 mg/kg

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)
LD 50 (Rat): 416 - 728 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
LD 50 (Rabbit): 3,412 mg/kg

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)
LD 50 (Rat): > 1,000 mg/kg

Inhalation

Product: ATEmix: 495.05 mg/l
ATEmix : 264.03 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)
LOAEL (Rat(Female, Male), Oral, 52 - 104 Weeks): 62 mg/kg Oral
Experimental result, Key study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Assessment Corrosive European Chemicals Agency, <http://echa.europa.eu/>
- REACH registration dossiers submitted by companies to ECHA

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Irritating.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1) LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.373 - 0.773 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

EC 50 (48 h): 0.016 mg/l European Chemicals Agency, <http://echa.europa.eu/> - REACH registration dossiers submitted by companies to ECHA

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)

EC 50 (Daphnia magna, 48 h): 0.057 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

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

NOEC (28 d): 0.032 mg/l European Chemicals Agency, <http://echa.europa.eu/> - REACH registration dossiers submitted by companies to ECHA

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

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

NOEC (21 d): 0.025 mg/l European Chemicals Agency, <http://echa.europa.eu/> - REACH registration dossiers submitted by companies to ECHA

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)

NOAEL (Daphnia magna): 0.021 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:

No data available.

Specified substance(s):

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

EC 50 (72 h): 0.03 mg/l European Chemicals Agency, <http://echa.europa.eu/> - REACH registration dossiers submitted by companies to ECHA

Persistence and Degradability

Biodegradation

Product:

No data available.

Specified substance(s):

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

The product is easily biodegradable.

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)

69 % (28 d) Detected in water. Experimental result, Key study
67 % (28 d) Detected in water. Experimental result, Key study
80 % (28 d) Detected in water. Experimental result, Supporting study
71 % (28 d) Detected in water. Experimental result, Key study
49 % (114 d) Soil Experimental result, Key study

BOD/COD Ratio

Product:

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Bluegill (*Lepomis macrochirus*), Bioconcentration Factor (BCF): 80.4 (Flow through)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Log Kow: 2.75 20 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides No data available.

1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1) No data available.

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 3082
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, NOS (1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1))
Transport Hazard Class(es)
Class: 9
Label(s):
Packing Group: III
Marine Pollutant: Yes
Environmental Hazards: Yes
Marine Pollutant: Yes
Special precautions for user: Not regulated.

IMDG

UN Number: UN 3082
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, NOS (1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1))
Transport Hazard Class(es)
Class: 9
Label(s):
EmS No.: F-A, S-F

Packing Group: III

Environmental Hazards: Yes
Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN Number: UN 3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, NOS (1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1))
Transport Hazard Class(es):
Class: 9
Label(s): -
Packing Group: III

Environmental Hazards: Yes
Marine Pollutant: No

Special precautions for user: Not regulated.
Cargo aircraft only: Allowed.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Not listed.

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	10000 lbs
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)	10000 lbs
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (1:1)	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Inventory Status:

Canada NDSL Inventory:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Canada DSL Inventory List:	On or in compliance with the inventory
Ontario Inventory:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
Australia AICS:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

Issue Date: 01/21/2020

Revision Information: No data available.

Version #: 1.0

Further Information: FIFRA: 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. The pesticide label also includes other important information, including directions for use.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.