

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Quarternary Disinfectant Cleaner (EPA Reg No. 6836-78-89900)

Version 1.0

Print Date 10/10/2016

Revision Date 03/09/2016

SDS Number 350000029705

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : Quarternary Disinfectant Cleaner (EPA Reg No. 6836-78-89900)

Recommended use : Disinfectant

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252
Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Flammable liquids	Category 3	Flammable liquid and vapour.
Acute toxicity	Category 4	Harmful if swallowed.
Acute toxicity	Category 4	Harmful in contact with skin.
Skin corrosion	Category 1B	Causes severe skin burns and eye damage.
Serious eye damage	Category 1	Causes serious eye damage.

Labelling

Hazard symbols

Flame
Corrosion
Exclamation mark

Signal word

Danger

Hazard statements

Flammable liquid and vapour.

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Harmful if swallowed or in contact with skin
Causes severe skin burns and eye damage.

Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Immediately call a POISON CENTER or doctor/ physician.

Specific treatment (see supplemental first aid instructions on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Wash contaminated clothing before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/ container to an approved incineration plant.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ .? / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves.

Do not breathe dust or mist.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	68424-95-3	10.00 - 15.00
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00 - 10.00

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Tetrasodium ethylene diamine tetraacetate	64-02-8	1.00 - 5.00
Ethyl alcohol	64-17-5	1.00 - 5.00
DISODIUM METASILICATE PENTAHYDRATE	10213-79-3	1.00 - 5.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

- Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Get medical attention immediately.
- Skin contact** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off with plenty of water. Take off contaminated clothing and wash before reuse. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.
- Inhalation** : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Ingestion** : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Flammable liquid. Vapors are heavier than air and may travel to a source of ignition and flash back. Liquid run-off to sewers may create fire/explosion hazard. Container may melt and leak in heat of fire.
- Further information** : Cool and use caution when approaching or handling fire-

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exposed containers. For large quantities of flammable liquids, consider containment to prevent the spread of fire. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|--|---|--|
| Personal precautions | : | Remove all sources of ignition.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Wear personal protective equipment.
Wash thoroughly after handling. |
| Environmental precautions | : | Outside of normal use, avoid release to the environment. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material.
Use only non-sparking equipment.
Dike large spills.
Clean residue from spill site. |

7. HANDLING AND STORAGE

Handling

- | | | |
|--|---|--|
| Precautions for safe handling | : | Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid breathing vapours, mist or gas.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling. |
| Advice on protection against fire and explosion | : | Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.
Use only non-sparking tools.
Use explosion-proof equipment.
Ground/bond container and receiving equipment. |

Storage

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Requirements for storage areas and containers : Keep container closed when not in use.
Keep tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm	-	OSHA TWA
Ethyl alcohol	64-17-5	-	1,000 ppm	-	ACGIH STEL

Personal protective equipment

Respiratory protection : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Hand protection : Wear suitable gloves.
Rubber gloves

Eye protection : Safety glasses with side-shields
Wear splash-resistant Chemical goggles.

Skin and body protection : Protective footwear.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : blue green

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Odor	: odourless
Odour Threshold	: Test not applicable for this product type
pH	: 13.0
Melting point/freezing point	: Test not applicable for this product type
Initial boiling point and boiling range	: Test not applicable for this product type
Flash point	: 58 °C 136.4 °F Method: ASTM D 56
Evaporation rate	: Test not applicable for this product type
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: Test not applicable for this product type
Vapour pressure	: Test not applicable for this product type
Vapour density	: Test not applicable for this product type
Relative density	: 1.005 g/cm ³
Solubility(ies)	: soluble
Partition coefficient: n-octanol/water	: Test not applicable for this product type

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Auto-ignition temperature : Test not applicable for this product type

Decomposition temperature : Test not applicable for this product type

Viscosity, dynamic : 23 mPa.s

Viscosity, kinematic : Test not applicable for this product type

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds : 3 % - additional exemptions may apply
Total VOC (wt. %)* *as defined by US Federal and State Consumer Product Regulations

Other information : None identified :

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents
Do not mix with bleach or any other household cleaners.
Strong bases

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

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11. TOXICOLOGICAL INFORMATION

Emergency Overview : Danger

Acute oral toxicity : LD50 1,050 mg/kg

Acute inhalation toxicity : LC50 0.4 mg/L

Acute dermal toxicity : LD50 1,100 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	Category 4	Oral
Acute toxicity	Category 4	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion	Category 1B	-
Serious eye damage	Category 1	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated	No classification proposed	-

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exposure		
Aspiration hazard	No classification proposed	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

Components	End point	Species	Value	Exposure time
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	No data available			
Alkyl dimethyl benzyl ammonium chloride	LC50 Measured OECD Test Guideline 203	Pimephales promelas (fathead minnow)	0.28 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.03 mg/l	34 d
Tetrasodium ethylene diamine tetraacetate	static test LC50	Lepomis macrochirus	41 mg/l	96 h
	NOEC	Danio rerio (zebra fish)	> 25.7 mg/l	35 d
Ethyl alcohol				
DISODIUM METASILICATE PENTAHYDRATE	No data available			

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Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	EC50 Measured No data available	Daphnia (water flea)	0.011 - 0.099 mg/l	
Alkyl dimethyl benzyl ammonium chloride				
Tetrasodium ethylene diamine tetraacetate	EC50	Daphnia magna (Water flea)	140 mg/l	48 h
	NOEC	Daphnia magna	25 mg/l	21 d
Ethyl alcohol				
	NOEC	Daphnia magna	9.6 mg/l	9 d
DISODIUM METASILICATE PENTAHYDRATE	No data available			

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	No data available			
Alkyl dimethyl benzyl ammonium chloride	EC50 OECD Test	Selenastrum capricornutum, Skeletonema costatum	0.026 mg/l	72 h

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	Guideline 201			
Tetrasodium ethylene diamine tetraacetate	EC50	Desmodesmus subspicatus	1.01 mg/l	72 h
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
DISODIUM METASILICATE PENTAHYDRATE	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	No data available		Readily biodegradable
Alkyl dimethyl benzyl ammonium chloride	95.5 %	28 d	Readily biodegradable
Tetrasodium ethylene diamine tetraacetate	10 %	28 d	Not readily biodegradable.
Ethyl alcohol	97 %	28 d	Readily biodegradable
DISODIUM METASILICATE PENTAHYDRATE	No data available		

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	No data available	No data available
Alkyl dimethyl benzyl ammonium chloride	79 Measured	3.91
Tetrasodium ethylene diamine tetraacetate	1.8 Measured	-3.86
Ethyl alcohol	3.2 estimated	-0.35 Measured
DISODIUM METASILICATE PENTAHYDRATE	No data available	No data available

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Mobility

Component	End point	Value
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	No data available	
Alkyl dimethyl benzyl ammonium chloride	No data available	
Tetrasodium ethylene diamine tetraacetate	Koc	1046 estimated
Ethyl alcohol	No data available	
DISODIUM METASILICATE PENTAHYDRATE	No data available	

PBT and vPvB assessment

Component	Results
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	Not fulfilling PBT and vPvB criteria
Alkyl dimethyl benzyl ammonium chloride	Not fulfilling PBT and vPvB criteria
Tetrasodium ethylene diamine tetraacetate	Not fulfilling PBT and vPvB criteria
Ethyl alcohol	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

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	Land transport	Sea transport	Air transport
UN number	2920	2920	2920
UN proper shipping name	Corrosive liquids, Flammable, n.o.s., (Dialkyldimethylammonium chloride, Ethanol)	Corrosive liquids, Flammable, n.o.s., (Dialkyldimethylammonium chloride, Ethanol)	Corrosive liquids, Flammable, n.o.s., (Dialkyldimethylammonium chloride, Ethanol)
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	-	-	-
Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.

15. REGULATORY INFORMATION

FIFRA Labeling

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

DANGER:

Corrosive. Causes irreversible eye damage.

Causes skin burns.

Harmful if swallowed.

Harmful if absorbed through skin.

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

State Right To Know

Massachusetts RTK	Ethyl alcohol	64-17-5
Minnesota HSL	Ethyl alcohol	64-17-5
New Jersey HRTK	Ethyl alcohol	64-17-5
Pennsylvania RTKL	Water	7732-18-5
	DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE	68424-95-3
	Alkyl dimethyl benzyl ammonium chloride	68424-85-1
	C11 ALCOHOL ETHOXYLATE	34398-01-1
	Tetrasodium ethylene diamine tetraacetate	64-02-8
	Ethyl alcohol	64-17-5
	Sodium hydroxide	1310-73-2

16. OTHER INFORMATION

HMIS Ratings

Health	3
Flammability	2
Reactivity	1

NFPA Ratings

Health	3
Fire	2
Reactivity	1
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

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Further information

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Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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