



UNIQUAT NEUTRAL DISINFECTANT 256

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 06/19/2020 Version: 2.0

SECTION 1: Identification

Identification

Product form : Mixture
Product name : UNIQUAT NEUTRAL DISINFECTANT 256
Product code : 192011 / 161076
Other means of identification : EPA Registration Number: 10324-108-106

Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant / Food Contact Sanitizer / Non-Food Contact Sanitizer

Supplier

Brulin & Company, Inc.
P.O. Box 270
Indianapolis, IN 46206 - USA
T 1.317.923.3211 - F 1.317.925.4596

Emergency telephone number

Emergency number : CHEMTREC 1.800.424.9300 or CHEMTREC International: 1.703.527.3887

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4	Combustible liquid
Acute toxicity (oral) Category 4	Harmful if swallowed
Acute toxicity (dermal) Category 4	Harmful in contact with skin
Skin corrosion/irritation Category 1B	Causes severe skin burns and eye damage

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US):

Danger

Hazard statements (GHS US):

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

Precautionary statements (GHS US)

Prevention:

Do not breathe mist, spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER, a doctor if you feel unwell.

Storage:

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

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Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Name	Product identifier	Weight (%)
Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides	(CAS-No.) 68424-85-1	5 - 10
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride	(CAS-No.) 32426-11-2	5 - 10
TETRASODIUM EDTA	(CAS-No.) 64-02-8	1 - 5
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride	(CAS-No.) 5538-94-3	1 - 5
DIDECYLDIMONIUM CHLORIDE	(CAS-No.) 7173-51-5	1 - 5
Non-Ionic Surfactant*	(CAS-No.) Trade Secret	1 - 5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water. Call a physician immediately.

Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Symptoms include: stinging, Swelling, Blurred vision, Redness.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Causes severe burns. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed. Ingestion may cause nausea and vomiting. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water fog. Alcohol-resistant foam. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

Specific hazards arising from the chemical

Fire hazard	: Under fire conditions closed containers may rupture or explode. Combustible liquid.
Explosion hazard	: Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.).

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Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe mist, spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Absorb spilled material with sand or earth. Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe mist, spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible materials : Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 8: Exposure controls/personal protection

Control parameters

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Not applicable

1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2)

Not applicable

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TETRASODIUM EDTA (64-02-8)

Not applicable

1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3)

Not applicable

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Not applicable

Non-Ionic Surfactant

Not applicable

Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Individual protection measures/Personal protective equipment

Hand protection:

Chemically resistant protective gloves

Eye protection:

Shall wear safety glasses with side shield or goggles or face shield

Skin and body protection:

Foot protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
	: dark green
	: Fresh Floral
Odor threshold	: No data available
pH	: 6.1
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 148 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available

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Specific gravity / density	: 1.0072
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	: 3.26 %

SECTION 10: Stability and reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials

Carbon oxides (CO, CO₂). Nitrogen oxides.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified.

ATE US (oral)	809 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	>20,000 ppm/4h
ATE US (vapors)	>20 mg/l/4h
ATE US (dust, mist)	>5 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 6.1
Serious eye damage/irritation	: Not classified. pH: 6.1
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.

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IARC group	Not listed
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Ingestion. Skin and eye contact. Inhalation.
Symptoms/effects	: Symptoms include: stinging, Swelling, Blurred vision, Redness.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Causes severe burns. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed. Ingestion may cause nausea and vomiting. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

Toxicity

Ecology - general : Toxic to aquatic life.

Persistence and degradability

TETRASODIUM EDTA (64-02-8)

Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O ₂ /g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O ₂ /g substance

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Persistence and degradability	Readily biodegradable in water.
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Bioaccumulative potential

TETRASODIUM EDTA (64-02-8)

Log Pow	-2.6
Bioaccumulative potential	Not bioaccumulative.

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

BCF fish 1	81 (Other, 46 day(s), Lepomis macrochirus, Experimental value)
Log Pow	4.66 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Mobility in soil

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DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Surface tension	0.02582 N/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Ecology - soil	No (test)data on mobility of the substance available.

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

US - DOT

Proper Shipping Name (DOT) : Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compound)
UN-No.(DOT) : UN1903
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : Corrosive

International shipping – IMDG

Proper Shipping Name (IMDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compound)
UN-No. (IMDG) : 1903
Class (IMDG) : Corrosive substances

International – IATA

Proper Shipping Name (IATA) : Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)
UN-No. (IATA) : 1903
Proper Shipping Name (IATA) : Disinfectant, liquid, corrosive, n.o.s.
Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.
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Non-Ionic Surfactant

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on the Canadian DSL (Domestic Substances List)

1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2)

Listed on the Canadian DSL (Domestic Substances List)

TETRASODIUM EDTA (64-02-8)

Listed on the Canadian DSL (Domestic Substances List)

1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3)

Listed on the Canadian DSL (Domestic Substances List)

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Listed on the Canadian DSL (Domestic Substances List)

Non-Ionic Surfactant

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

TETRASODIUM EDTA (64-02-8)

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1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

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1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

TETRASODIUM EDTA (64-02-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
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Listed on the TCSI (Taiwan Chemical Substance Inventory)

DIDECYLDIMONIUM CHLORIDE (7173-51-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.