



# 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 <sub>2</sub> ) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO <sub>2</sub> 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, CO<sub>2</sub>). 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, CO<sub>2</sub>). 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.<br>pH: 6.1 |
| Serious eye damage/irritation     | : Not classified.<br>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 |
|------------|------------|

|                                     |                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <sub>2</sub> /g substance     |
| Chemical oxygen demand (COD)    | 0.54 - 0.58 g O <sub>2</sub> /g substance |

#### DIDECYLDIMONIUM CHLORIDE (7173-51-5)

|                               |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

### 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)

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

#### 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)  
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)

### 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)  
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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

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Version : 2.0  
Revision date : 06/19/2020

*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.*