SECTION 1: Identification

1.1. Product Identifier
Product Form: Mixture
Product Name: Vesta-Syde SQ® 128 Ready-To-Use Disinfectant
Product Code: 6343

1.2. Intended Use of the Product

1.2.1 Relevant identified uses
Industrial/Professional use spec: For professional use only
Use of the substance/mixture: Hard Surface Disinfectant

1.2.2 Uses advised against
No additional information available.

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer:
STERIS Corporation
Official Mailing Address:
P.O. Box 147
St. Louis, MO 63166 USA

Supplier:
STERIS Ireland Limited
IDA Business and Technology Park
Tullamore
County Offaly
R35 X865
Ireland.
Product/Technical Information Phone No: +44 (0) 116 276 8636
Email: asksteris_msds@steris.com

1.4. Emergency Telephone Number
Emergency Number: +44 (0) 1895 622 639

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3 H226
Eye Irrit. 2A H319
Aquatic Acute 2 H401

Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label Elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal Word (CLP): Warning
Hazard Pictograms (CLP)

Hazard Statements (CLP): H226 - Flammable liquid and vapor.
H319 – Causes serious eye irritation.
H401 – Toxic to aquatic life.

Precautionary Statements (CLP): P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 – Avoid release into the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.
2.3. Other Hazards

Other Hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/Information On ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS-No.) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0</td>
<td>10,0</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>Didecyldimethylammonium chloride</td>
<td>(CAS-No.) 7173-51-5 (EC no) 230-525-2</td>
<td>0,0803</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes eye irritation. Prolonged exposure may cause skin irritation. Contact causes severe irritation with redness and swelling of the conjunctiva. Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool. Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor. Explosion Hazard: May form flammable or explosive vapor-air mixture. Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid all contact with skin, eyes, or clothing. For Non-emergency Personnel Protective Equipment: Use appropriate personal protective equipment (PPE). Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulose material. Use only non-sparking tools.

6.4. Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection.

SECTION 7: Handling And Storage

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with skin, eyes and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. For bulk transfers, ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Quaternary Ammonium Disinfectant

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

### Isopropyl alcohol (67-63-0)

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>200 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
<td>Not Classifiable as a Human Carcinogen</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>Biological Exposure Indices (BEI)</td>
<td>40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>1225 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (STEL) (ppm)</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td>USA IDLH</td>
<td>US IDLH (ppm)</td>
<td>2000 ppm (10% LEL)</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>999 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>1250 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (ppm)</td>
<td>500 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure Controls

Appropriate engineering controls:
- Ensure adequate ventilation.
- Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective goggles.

Hand protection: Wear rubber gloves.
Eye protection: Wear chemical goggles or safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical And Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

| Physical State | Liquid |
| Appearance | Clear |
| Odor | Characteristic; alcohol |

11/12/2019 EN (English) 6343UK 3/6
### Odor Threshold
- No data available

### pH
- 10.40

### Evaporation Rate
- No data available

### Melting Point
- No data available

### Freezing Point
- No data available

### Boiling Point
- 128°F (50°C)

### Flash Point
- No data available

### Auto-Ignition Temperature
- No data available

### Decomposition Temperature
- No data available

### Flammability (solid, gas)
- No Sustained Combustion (Sustained Combustibility Test L.2, Part III, Section 32.5.2 of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria.)

### Vapor Pressure
- No data available

### Relative Vapor Density at 20 °C
- No data available

### Relative Density
- No data available

### Specific Gravity
- 0.9841

### Solubility
- Complete in water

### Partition Coefficient: n-octanol/water
- No data available

### Viscosity
- 1.10 cP @ 25°C

### Explosion Data – Sensitivity to Mechanical Impact
- Not expected to present an explosion hazard due to mechanical impact.

### Explosion Data – Sensitivity to Static Discharge
- Static discharge could act as an ignition source.

### 9.2. Other Information
- No additional information available

### SECTION 10: Stability And Reactivity

#### 10.1 Reactivity:
- Reacts violently with strong oxidizers. Increased risk of fire or explosion.

#### 10.2 Chemical Stability:
- May form flammable or explosive vapor-air mixture but does not sustain combustion

#### 10.3 Possibility of Hazardous Reactions:
- Hazardous polymerization will not occur.

#### 10.4 Conditions to Avoid:
- Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

#### 10.5 Incompatible Materials:
- Strong acids, strong bases, strong oxidizers.

#### 10.6 Hazardous Decomposition Products:
- None expected under normal conditions of use.

### SECTION 11: Toxicological Information

#### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Not classified

**Vesta-Syde® SQ 128 Ready-To-Use Disinfectant**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal Rat</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>&gt; 5.44 mg/l</td>
</tr>
</tbody>
</table>

**Isopropyl Alcohol (67-63-0)**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Dermal Rabbit</td>
<td>4059 mg/kg</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>72600 mg/m³ (Exposure time: 4 h)</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>72.5 mg/l/4h</td>
</tr>
</tbody>
</table>

**Didecyldimethylammonium Chloride (7173-51-5)**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>329 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal Rat</td>
<td>2001 mg/kg</td>
</tr>
</tbody>
</table>

**Skin Corrosion/Irritation:** Not classified

**pH:** 10.90

**Eye Damage/Irritation:** Causes eye irritation.

**pH:** 10.90

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** No data available

**Carcinogenicity:** Not classified

**Isopropyl Alcohol (67-63-0)**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC Group</td>
<td>3</td>
</tr>
</tbody>
</table>
Vesta-Syde SQ® 128 Ready-To-Use Disinfectant  
Safety Data Sheet  
according to Regulation (EC) No. 453/2010

Reproductive Toxicity: Not classified  
Specific Target Organ Toxicity (Single Exposure): Not classified  
Specific Target Organ Toxicity (Repeated Exposure): Not classified  
Aspiration Hazard: Not classified  
Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.  
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.  
Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.  
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.  
Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: Ecological Information

12.1. Toxicity  
Ecology - General: Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Vesta-Syde SQ® 128 Ready-To-Use Disinfectant</th>
<th>LC50 Fish</th>
<th>&lt;400 mg/l (Exposure time: 96 h - Species: Fathead Minnows)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol (67-63-0)</td>
<td>LC50 Fish 1</td>
<td>9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>EC50 Other Aquatic Organisms 1</td>
<td>1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)</td>
</tr>
<tr>
<td></td>
<td>LC 50 Fish 2</td>
<td>11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td></td>
<td>EC50 Other Aquatic Organisms 2</td>
<td>1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)</td>
</tr>
</tbody>
</table>

| Didecyldimethylammonium chloride (7173-51-5) | LC50 Fish 1 | 0.39 mg/l |
|                                            | EC50 Daphnia 1 | 0.018 mg/l |
|                                            | NOEC chronic algae | 0.025 mg/l |

12.2. Persistence and Degradability  
Vesta-Syde SQ® 128 Ready-To-Use Disinfectant  
Persistence and Degradability: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative Potential  
Vesta-Syde SQ® 128 Ready-To-Use Disinfectant  
Bioaccumulative Potential: Not established.

| Isopropyl alcohol (67-63-0) | Log Pow | 0.05 (at 25 °C) |

12.4. Mobility in Soil  
No additional information available

12.5. Other Adverse Effects  
Other Information: Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods  
Waste disposal recommendations: Do not contaminate food, feed, or water by storage or disposal.  
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Additioinal information: CONTAINER DISPOSAL: (For Packet:) Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of packet in trash.  
(For 5 gal.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents and dispose of as pesticide waste. Fill the container ¼ full with water and recap. Shake for 10 seconds. Dispose of rinsate as pesticide waste. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.  
(For > 5 gal.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents and dispose of as pesticide waste. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times.

Ecology - waste materials: Avoid release to the environment.

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SECTION 14: Transport Information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA
Not regulated for transport.

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available.

14.6.2. Transport by sea
No additional information available.

14.6.3. Air transport
No additional information available.

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other Information, Including Date Of Preparation Or Last Revision

Date of Preparation or Latest Revision: 11/12/2019

GHS Full Text Phrases:

- Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3
- Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1
- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2
- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Eye Irrit. 2 Serious eye damage/eye irritation Category 2
- Eye Irrit. 2A Causes eye damage/eye irritation Category 2A
- Flam. Liq. 2 Flammable liquids Category 2
- Flam. Liq. 3 Flammable liquids Category 3
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- H225 Highly flammable liquid and vapor
- H226 Flammable liquid and vapor
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H400 Very toxic to aquatic life
- H401 Toxic to aquatic life

SDS EU (REACH Annex II)

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.