SECTION 1: Identification

1.1. Product Identifier
Product Form: Mixture
Product Name: Vesta-Syde SQ® 64 Ready-To-Use Disinfectant
Product Code: 6342

1.2. Intended Use of the Product

1.2.1 Relevant identified uses
Industrial/Professional Use: 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
P. O. Box 147, St. Louis, MO 63166, US
Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
US Emergency Telephone No. 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

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 H-phrases: see section 16

2.2. Label Elements

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

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

Signal Word (CLP): Warning
Hazard Pictograms (CLP):
GHS02
GHS07

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>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS-No.) 67-63-0 (EC no) 200-661-7</td>
<td>10,0</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 603-117-00-0</td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Didecyldimethylammonium chloride</td>
<td>(CAS-No.) 7173-51-5 (EC no) 230-525-2</td>
<td>0,15936</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</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.
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.

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.

6.1.1. 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.

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 cellulosic 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

<table>
<thead>
<tr>
<th>Isopropyl alcohol (67-63-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>200 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH STEL (ppm)</td>
<td>400 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH chemical category</td>
<td>Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>USA ACGIH 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>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>400 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (ppm)</td>
<td>400 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (mg/m³)</td>
<td>1225 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (ppm)</td>
<td>500 ppm</td>
</tr>
<tr>
<td>USA IDLH US IDLH (ppm)</td>
<td>2000 ppm (10% LEL)</td>
</tr>
<tr>
<td>United Kingdom WEL TWA (mg/m³)</td>
<td>999 mg/m³</td>
</tr>
<tr>
<td>United Kingdom WEL TWA (ppm)</td>
<td>400 ppm</td>
</tr>
<tr>
<td>United Kingdom WEL STEL (mg/m³)</td>
<td>1250 mg/m³</td>
</tr>
<tr>
<td>United Kingdom WEL STEL (ppm)</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment:

- 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 |
Vesta-Syde SQ® 64 Ready-To-Use Disinfectant
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Odor Threshold: No data available
pH: 10.90
Evaporation rate: No data available
Melting Point: No data available
Freezing Point: No data available
Boiling Point: 122°F (50°C)
Flash Point: 98°F (37°C)
Auto-ignition Temperature: No data available
 Decomposition Temperature: No data available
Flammability (solid, gas): Non Flammable
Vapor Pressure: No data available
Relative Vapor Density at 20 °C: No data available
Relative Density: No data available
Specific Gravity: 0.9848
Solubility: Complete in water
Viscosity: 2.10 cP @ 25°C

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 64 Ready-To-Use Disinfectant

<table>
<thead>
<tr>
<th>Toxicty</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>Toxicty</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>Toxicty</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
Based on available data, the classification criteria are not met
Teratogenicity: No data available
Carcinogenicity: Not classified
Based on available data, the classification criteria are not met
Isopropyl alcohol (67-63-0)

<table>
<thead>
<tr>
<th>IARC group</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive Toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Single Exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
</tr>
<tr>
<td>Symptoms/Injuries After Inhalation</td>
<td>Prolonged exposure may cause irritation</td>
</tr>
<tr>
<td>Symptoms/Injuries After Skin Contact</td>
<td>Prolonged exposure may cause skin irritation</td>
</tr>
<tr>
<td>Symptoms/Injuries After Eye Contact</td>
<td>Contact causes severe irritation with redness and swelling of the conjunctiva</td>
</tr>
<tr>
<td>Symptoms/Injuries After Ingestion</td>
<td>Ingestion may cause adverse effects</td>
</tr>
<tr>
<td>Chronic Symptoms</td>
<td>None expected under normal conditions of use</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological Information

#### 12.1. Toxicity

Ecology - General: Toxic to aquatic life.

**Vesta-Syde SQ® 64 Ready-To-Use Disinfectant**

- **LC50 Fish**: <400 mg/l (Exposure time: 96 h - Species: Fathead Minnows)
- **Isopropyl alcohol (67-63-0)**
  - LC50 Fish 1: 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
  - EC50 Daphnia 1: 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
  - EC50 Other Aquatic Organisms 1: 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
  - LC 50 Fish 2: 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
  - EC50 Other Aquatic Organisms 2: 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
- **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® 64 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® 64 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 rinseate 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.
Additional 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.): Non refillable 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 remaining contents and dispose of as pesticide waste. Fill the container ¼ full with water and recap. Shake for 10 seconds. Dispose of rinseate as pesticide waste. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.
(For > 5 gal.): Non refillable 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 rinseate as pesticide waste. Repeat this procedure two more times.

Ecology - waste materials
Avoid release to the environment.

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: 10/21/2019
Other Information:

Full text of EUH-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
## Vesta-Syde SQ® 64 Ready-To-Use Disinfectant

Safety Data Sheet

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

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.