## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>:</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>:</td>
<td>Sani-Quat- 2222, 2224, 2225</td>
</tr>
<tr>
<td>Product code</td>
<td>:</td>
<td>80463</td>
</tr>
</tbody>
</table>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.3. Details of the supplier of the safety data sheet

Advantage Chemical, LLC  
Temecula, CA, 92590  
T 1-855-238-2436

### 1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency number</th>
<th>:</th>
<th>1-800-424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChemTrec</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>GHS-US classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Met. Corr. 1</td>
<td>H290</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>H302</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

- Hazard pictograms (GHS-US):
  - GHS05
  - GHS07

- Signal word (GHS-US): Warning
- Hazard statements (GHS-US):
  - H290 - May be corrosive to metals
  - H302 - Harmful if swallowed
- Precautionary statements (GHS-US):
  - P234 - Keep only in original container
  - P264 - Wash hands, forearms and face thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P390 - Absorb spillage to prevent material damage
  - P406 - Store in Original container or corrosive resistant container with a resistant inner liner
  - P501 - Dispose of contents/container to a licensed hazardous waste facility in accordance with state and local agencies
  - P301 - IF SWALLOWED: Rinse mouth, Call a POISON CENTER or doctor/physician

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Not applicable
**Sani-Quat- 2222, 2224, 2225**

Safety Data Sheet

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>

Full text of H-statements: 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: Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**


Unsuitable extinguishing media: Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighters**

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Emergency procedures: Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Additional hazards when processed: May be corrosive to metals.

Precautions for safe handling: Avoid contact with skin, eyes and clothing.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions: Keep only in original container in a cool well ventilated area. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Storage temperature: 25 (5 - 42) °C

Packaging materials: polyethylene. Do not store in corrodeable metal.

**7.3. Specific end use(s)**

No additional information available

---

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sani-Quat- 2222, 2224, 2225</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Mixed Quaternary Ammonium Chlorides</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**8.2. Exposure controls**

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>red</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7 (6 - 8)</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt;= 0 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;= 100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>&gt;= 0.991 (0.981 - 1.001) g/ml</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Sani-Quat- 2222, 2224, 2225
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC content</td>
<td>&lt;= 24.8 g/l</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Strong acids. Strong bases. Metals. May be corrosive to metals.

10.6. Hazardous decomposition products

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Substance</th>
<th>LOF (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sani-Quat- 2222, 2224, 2225</td>
<td>500.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>Mixed Quaternary Ammonium Chlorides</td>
<td>ATE US (oral) 50.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 7 (6 - 8)

Serious eye damage/irritation: Not classified
pH: 7 (6 - 8)

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

### SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>LOF (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sani-Quat- 2222, 2224, 2225</td>
<td>Not established.</td>
</tr>
</tbody>
</table>
### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Sani-Quat- 2222, 2224, 2225</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

- **Effect on the global warming**: No known ecological damage caused by this product.
- **Other information**: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- **Waste disposal recommendations**: Triple rinse containers with water and offer for recycling. Chemical concentrate, contaminated liquid or residues, needs to be collected safely and offered up to a public chemical recycling facility and or hazardous chemical waste facility. Submit SDS along with chemical to be disposed. Dispose of in accordance with state and local regulations.

- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

- **In accordance with DOT**: Not regulated for transport

#### Additional information

- **Other information**: No supplementary information available.

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

- **Mixed Quaternary Ammonium Chlorides**: Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

- **CANADA**: No additional information available

#### EU-Regulations

No additional information available

- **Classification according to Regulation (EC) No. 1272/2008 [CLP]**: No additional information available

- **Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**: Not classified

#### National regulations

No additional information available

#### 15.3. US State regulations

No additional information available
SECTION 16: Other information

Revision date: 10/28/2015

Full text of H-statements:

<table>
<thead>
<tr>
<th>H-statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 2 (Oral)</td>
<td>Acute toxicity (oral), Category 2</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals, Category 1</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
</tbody>
</table>

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard: None

HMIS III Rating

Health: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability: 0 Minimal Hazard - Materials that will not burn

Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection: B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

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.