1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 00042
Product Name: K-QUAT SELECT
Company Name: KIRBY CHEMICAL & RESTAURANT SUPPLY
809 S. EASTMAN RD.
LONGVIEW, TX  75602

Phone Number: (903)757-2723
(800)255-3924

Emergency Contact: CHEM-TEL, INC.

Intended Use: NEUTRAL DESINFECTANT CLEANER


2. HAZARDS IDENTIFICATION

Acute Toxicity: Inhalation, Category 5
Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: Warning
GHS Hazard Phrases: H333 - May be harmful if inhaled.
                    H302 - Harmful if swallowed.
                    H316 - Causes mild skin irritation.
                    H320 - Causes eye irritation.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
                        P270 - Do not eat, drink or smoke when using this product.

GHS Response Phrases: P312 - Call a POISON CENTER/doctor/... if you feel unwell.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs, get medical advice/attention.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 - If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to ....

GHS Hazard Phrases:
Acute Toxicity: Inhalation, Category 5
Acute Toxicity: Oral, Category 4
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GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to ....
Potential Health Effects (Acute and Chronic):

Chronic: May cause reproductive and fetal effects. Laboratory experiments have shown mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Inhalation:

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation. May cause respiratory tract irritation.

Skin Contact:

May cause cyanosis of the extremities. Causes skin burns. May be harmful if absorbed through the skin. May cause skin irritation.

Eye Contact:

May cause chemical conjunctivitis and corneal damage. Causes eye burns. Contact may cause transient eye irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Ingestion of large amounts may cause gastrointestinal irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>&lt; 5.0 %</td>
</tr>
<tr>
<td>34398-01-1</td>
<td>Nonionic surfactant belco 01601 glass cleaner..</td>
<td>&lt; 3.0 %</td>
</tr>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>2.17 %</td>
</tr>
<tr>
<td>64-02-8</td>
<td>Ethylenediamine tetraacetic acid, tetrasodium salt</td>
<td>&lt; 2.0 %</td>
</tr>
<tr>
<td>68424-95-3</td>
<td>Octyl decyl dimethy ammonium chloride</td>
<td>1.627 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. Get medical aid immediately.

In Case of Inhalation:

Wash clothing before reuse. Flush skin with plenty of soap and water. Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure. Destroy contaminated shoes. Get medical aid if irritation develops or persists.

In Case of Skin Contact:

Get medical aid. Gently lift eyelids and flush continuously with water. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do NOT allow victim to rub eyes or keep eyes closed.

In Case of Eye Contact:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

In Case of Ingestion:

Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be at increased risk from exposure to this substance. Antidote: Replace fluid and electrolytes.

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5. FIRE FIGHTING MEASURES

Flash Pt: > 200.00 F (93.3 C)  Method Used: Setaflash Open Cup
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data.
Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water may be ineffective. Do NOT use straight streams of water.
Fire Fighting Instructions: Replace fluid and electrolytes. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Clean up spills immediately, observing precautions in the Protective Equipment section.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Discard contaminated shoes. Wash hands before eating. Remove contaminated clothing and wash before reuse.

Precautions To Be Taken in Storing: Keep away from heat, sparks and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid. Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>PEL: 1000 ppm</td>
<td>TLV: 1000 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>34398-01-1</td>
<td>Nonionic surfactant belco 01601 glass cleaner.</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>64-02-8</td>
<td>Ethylenediamine tetraacetic acid, tetrasodium salt</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

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K-QUAT SELECT
SAFETY DATA SHEET

Octyl decyl dimethyl ammonium chloride

Respiratory Equipment: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear chemical goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid


Melting Point: No data.

Boiling Point: 212.00 F (100.0 C)

Autoignition Pt: No data.

Flash Pt: > 200.00 F (93.3 C) Method Used: Setaflash Open Cup

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.01

Density: 8.38 LB/GA

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: < ETHYL ETHER

Solubility in Water: No data.

pH: 6.5

Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: Incompatible materials, ignition sources, Excess heat, No specific conditions to avoid noted.

Incompatibility - Materials To Avoid: Strong oxidizing agents, acids, Alkali metals, Ammonia, hydrazine, Peroxides, Sodium, Acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentfluoride, Perchloric acid, silver nitrate, mercuric nitrate, potassium tert-butoxide, magnesium perchlorate, Acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptfluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, Strong reducing agents, organic matter, cyanides (e.g. potassium cyanide, sodium cyanide), ammonium salts, cellulose, sodium thiosulfate, Acetanilide, chlorates, hypophosphites, and iodides. mercury salts, permanganates, sulfites, tannic acid.

Hazardous Decomposition Or Byproducts: Carbon monoxide, irritating and toxic fumes and gases, Hydrogen chloride, chlorine, Carbon dioxide, nitrogen oxides (NOx) and ammonia (NH3). No data available.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.
11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.
       Teratogenicity: No data available.
       Reproductive Effects: Neurotoxicity: Mutagenicity: Other Studies: No data available. No
       information available.
       Other Studies: None.
       CAS# 64-17-5: Ethyl alcohol:
       Standard Draize Test, Skin, Species: Rabbit, 20.00 MG, 24 H.
       Results:
       Lungs, Thorax, or Respiration: Other changes.
       Gastrointestinal: Other changes.
       Kidney, Ureter, Bladder: Other changes.
       - Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague
       Czechoslovakia, Vol/p/yr: -189, 1986

       CAS# 68424-85-1: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,
       chlorides:
       Acute toxicity, LD50, Oral, Rat, 426.0 MG/KG.
       Results:
       Behavioral: Somnolence (general depressed activity).
       Vascular: BP lowering not characterized in autonomic section.
       Skin and Appendages: Skin: After topical exposure: Corrosive.

       Standard Draize Test, Skin, Species: Rabbit, 25.00 MG.
       Results:
       Effects on Newborn: Stillbirth.
       Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).
       Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at
       day {4}).
       - U.S. Army, Environmental Hygiene Agency Reports., Vol/p/yr: 5177T7-66/,
       CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>n.a.</td>
<td>1</td>
<td>A4</td>
<td>n.a.</td>
</tr>
<tr>
<td>34398-01-1</td>
<td>Nonionic surfactant belco 01601 glass cleaner..</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>64-02-8</td>
<td>Ethylenediamine tetraacetic acid, tetrasodium salt</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>68424-95-3</td>
<td>Octyl decyl dimethy ammonium chloride</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: When released to the atmosphere it will photodegrade in hours (polluted
       urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout
       should be significant.
       Physical: No information available.
       No information reported.
       Other: None.

Results of PBT and vPvB assessment: CAS# 68424-85-1: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,
       chlorides:
       LC50, Striped Bass (Morone saxatilis), fry, 14100. UG/L, 96 H, Mortality, Water
temperature: 12.00 °C (53.6 °F), Hardness: 40.00 mg/L; Sensitivity of Juvenile Striped Bass to Chemicals Used in Aquaculture, Bills, T.D., L.L. Marking, and G.E. Howe, 1993

LC50, Striped Bass (Morone saxatilis), fry, 14200. UG/L, 1 H, Mortality, Water temperature: 12.00 °C (53.6 °F), Hardness: 40.00 mg/L; Sensitivity of Juvenile Striped Bass to Chemicals Used in Aquaculture, Bills, T.D., L.L. Marking, and G.E. Howe, 1993

CAS# 64-02-8: Ethylenediamine tetraacetic acid, tetrasodium salt: Effective concentration to 100% of test organisms., Water Flea (Daphnia magna), 1136. mg/L, 24 H, Behavior, pH: =8.00; Results of Toxic Action of Water Pollutants on Daphnia magna Straus Tested by an Improved Standardized Procedure, Bringmann, G., and R. Kuehn, 1982

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed. RCRA P-Series: CAS# 26628-22-8: waste number P105.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: METHANOL. DISINFECTANT LIQUID CORROSIVE NOS (DIMETHYLBENZYLAMMONIUM CHLORIDE) No information available.

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: 15. REGULATORY INFORMATION

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Other US EPA or State Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>TSCA: Inventory</td>
</tr>
<tr>
<td>34398-01-1</td>
<td>Nonionic surfactant belco 01601 glass cleaner..</td>
<td>TSCA: Inventory</td>
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<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>TSCA: Inventory, 4 Test</td>
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<td>Ethylenediamine tetraacetic acid, tetrasodium salt</td>
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<td>68424-95-3</td>
<td>Octyl decyl dimethy ammonium chloride</td>
<td>TSCA: Inventory</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

Revision Date: 11/13/2013
Additional Information About This Product: EPA REG. NO. 1839-169-56864.

While the information is believed to be correct, Kirby Chemical Company shall in no event be responsible for any damages whatsoever, either directly or indirectly, resulting from any publication or use of or reliance upon data contained herein. No warranty, either expressed or implied, of merchantability, of fitness for a particular purpose, or of any other nature with respect to the product or to the data, is made herein.

The information contained in this Material Safety Data Sheet is supplied pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.