



1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 1800
Product Name: K-QUAT NO-RINSE
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: SURFACE SANITIZER

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B

Acute Toxicity: Oral, Category 4

Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases:
H314 - Causes severe skin burns and eye damage.
H302 - Harmful if swallowed.
H318 - Causes serious eye damage.

GHS Precaution Phrases:
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P270 - Do not eat, drink or smoke when using this product.

GHS Response Phrases:
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER/doctor/....
P321 - Specific treatment see ... on this label.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.

GHS Storage and Disposal Phrases:
P405 - Store locked up.
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:
May cause severe irritation of the respiratory tract with possible burns. 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.

Skin Contact:
Causes skin burns. May be harmful if absorbed through the skin. Causes moderate skin



Eye Contact: irritation. May cause cyanosis of the extremities. Causes eye burns. Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
68424-85-1	Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides	2.0 -4.0 %
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	2.0 -4.0 %
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	1.0 -2.0 %
7173-51-5	1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	1.0 -2.0 %
64-17-5	Ethyl alcohol	0.5 -2.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures: Get medical aid immediately. Remove from exposure and move to fresh air immediately.

In Case of Inhalation: If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

In Case of Skin Contact: 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. Wash clothing before reuse.

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

In Case of Ingestion: 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.

Note to Physician: 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.



5. FIRE FIGHTING MEASURES

Flash Pt: No data.

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. For large fires, use water spray, fog, or alcohol-resistant foam. Water may be ineffective. Do NOT use straight streams of water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Replace fluid and electrolytes. 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.

Flammable Properties and Hazards: No data available.

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. Provide ventilation. Remove all sources of ignition. Use a spark-proof tool. A vapor suppressing foam may be used to reduce vapors.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Discard contaminated shoes. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. 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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68424-85-1	Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides	No data.	No data.	No data.
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	No data.	No data.	No data.
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	No data.	No data.	No data.
7173-51-5	1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	No data.	No data.	No data.



SAFETY DATA SHEET

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64-17-5 Ethyl alcohol

PEL: 1000 ppm

TLV: 1000 ppm

No data.

Respiratory Equipment (Specify Type):	No data available.
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.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Appearance: Blue. Liquid. Odor: Odorless.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	.9905
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	YES
pH:	6.0 - 8.0
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials, ignition sources, Excess heat.
Incompatibility - Materials To Avoid:	Strong reducing agents, acids, 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, Strong oxidizing agents, Alkali metals, Ammonia, hydrazine, Peroxides, Sodium, Acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, Perchloric acid, silver nitrate, mercuric nitrate, potassium tert-butoxide, magnesium perchlorate, Acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate.
Hazardous Decomposition Or Byproducts:	Hydrogen chloride, chlorine, Carbon monoxide, Carbon dioxide, nitrogen oxides (NOx) and ammonia (NH3). irritating and toxic fumes and gases.
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.

Carcinogenicity/Other Information: 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.
- U.S. Army, Environmental Hygiene Agency Reports., Vol/p/yr: 5177T7-66, 1967

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# 7173-51-5: 1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride:
Other Studies:, TDLo, Oral, Rat, 3600. MG/KG, 90 D.
Results:
Gastrointestinal:Other changes.
- National Technical Information Service, Vol/p/yr: AD867-663,

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# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68424-85-1	Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides	n.a.	n.a.	n.a.	n.a.
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	n.a.	n.a.	n.a.	n.a.
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	n.a.	n.a.	n.a.	n.a.
7173-51-5	1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.



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.

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) C, 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) C, 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

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.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: DISINFECTANT LIQUID CORROSIVE NOS (DIMETHYLBENZYLAMMONIUM CHLORIDE) METHANOL.

15. REGULATORY INFORMATION

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated: Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68424-85-1	Quaternary ammonium compounds,benzyl-C12-16-alkyldimethyl, chlorides	TSCA: Inventory, 4 Test
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	TSCA: Inventory
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	TSCA: Inventory
7173-51-5	1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	TSCA: Inventory
64-17-5	Ethyl alcohol	TSCA: Inventory



Regulatory Information: EPA REGISTRATION No: 10324-81-56864.

16. OTHER INFORMATION

Revision Date: 11/04/2013

Additional Information About EPA REGISTRATION No: 10324-81-56864.

This Product:

Company Policy or

Disclaimer:

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