

**Trade name:** VersaQuat®

**SECTION 1: Identification**

**Product identifier used on the label:**

**Product Name:** VersaQuat®

**Other means of identification:**

**Product Code Number:** VQUAT1Q, VQUAT4G, VQUAT6Q

**Recommended use of the chemical and restrictions on use:**

**Recommended use:** Disinfectant.

**Recommended restrictions:** Uses other than as recommended above

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

**Company Name:** Berkshire Corporation  
**Company Address:** 6509 Franz Warner Parkway  
Whitsett, NC 27377, USA  
**Company Telephone:** 1-800-242-7000  
**Company Email:** [ghs@berkshire.com](mailto:ghs@berkshire.com)

**Emergency phone number:** CHEMTREC: 1-800-424-9300

**SECTION 2: Hazard(s) identification**

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:**

**Physical hazards**

None expected

**Health hazards**

Serious eye irritation, category 2A

**Environmental hazards**

Not adopted under OSHA paragraph (d) of §1910.1200

**GHS Signal word:** WARNING

**GHS Hazard statement(s):** Causes serious eye irritation

**GHS Hazard symbol(s):**



## GHS Precautionary statement(s):

### Prevention:

- Wash face, hands and any exposed skin thoroughly after handling
- Wear eye protection/face protection.

### Response:

- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

### Storage:

- None required.

### Disposal:

- None required.

## Hazard(s) not otherwise classified (HNOC):

Toxic to aquatic life with long lasting effects.

## Percentage of ingredient(s) of unknown acute toxicity:

Not applicable

## SECTION 3: Composition/information on ingredients

### Mixture:

Chemical name	CAS#	Concentration (weight %)
Tetrasodium EDTA	64-02-8	1-5
Alcohol Ethoxylate	68131-39-5	0.1-1
Alkyl dimethyl ethylbenzyl ammonium chloride	85409-23-0	0.1-1
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	0.1-1

### Note:

The exact percentage (concentration) of composition has been withheld as a trade secret. The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

## SECTION 4: First-aid measures

**Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:**

**Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.

**Most important symptoms/effects, acute and delayed:**

Causes serious eye irritation

**Indication of immediate medical attention and special treatment needed:**

If any symptoms are observed, contact a physician and give them this SDS sheet.

The use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

## SECTION 5: Fire-fighting measures

**Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media:** None known

**Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products may include the following substances: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides may be formed during a fire.

**Special protective equipment and precautions for fire-fighters:**

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

Wear appropriate protective equipment, as conditions warrant (see Section 8).

See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Methods and materials for containment and cleaning up:**

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean contaminated surface thoroughly.

Prevent product from entering drains. Dam up. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

**SECTION 7: Handling and storage****Precautions for safe handling:**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation,

wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

**Conditions for safe storage, including any incompatibles:**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible materials: Incompatible with strong acids and bases. Incompatible with oxidizing agents.

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

**OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.**

Substance	US OSHA PELs		US ACGIH TLVs		NIOSH OELs	
	TWA (8 hour)	STEL (15 min)	TWA (8 hour)	STEL (15 min)	IDLH	TWA (8hr)
Ethanol	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	No data available	No data available	STEL: 1000 ppm	15 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

## Other Information:

Vacated limits revoked by the Court of Appeals decision in AFL-CIOv. OSHA, 965F.2d962(11th Cir., 1992).

## Appropriate engineering controls:

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended. Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

## Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Face protection shield, or tight sealing safety goggles are recommended.

**Skin and hand protection:** Chemical-resistant, impervious gloves (such as nitrile rubber) complying with an approved standard should be worn when handling this product. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Based on the potential for exposure, select a respirator that meets the appropriate standard or certification.

**General hygiene considerations:** Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product.

## SECTION 9: Physical and chemical properties

### Appearance (physical state, color, etc.):

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear, colorless
<b>Odor:</b>	Sweet
<b>Odor threshold:</b>	Not determined
<b>pH:</b>	11.0 - 12.0
<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	Not determined
<b>Flash point:</b>	> 200 °F

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<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not determined
<b>Flammability limit – upper (%):</b>	Not determined
<b>Explosive limit – lower (%):</b>	Not determined
<b>Explosive limit – upper (%):</b>	Not determined
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not determined
<b>Relative density:</b>	1.0068
<b>Solubility (ies):</b>	Soluble in water.
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	<100 cP @ 75°F
<b>Density:</b>	8.4 lbs./gal
<b>VOC Content (%):</b>	0.02% VOC CARB COMPLIANT for product category

### SECTION 10: Stability and reactivity

<b>Reactivity:</b>	No hazardous reactions anticipated under normal storage and handling conditions.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated conditions of use
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.
<b>Incompatible materials:</b>	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
<b>Hazardous decomposition Products:</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### SECTION 11: Toxicological information

#### Information on likely routes of exposure:

- Inhalation:** Causes burns.
- Ingestion:** Causes burns.
- Skin:** Irritating to skin.
- Eyes:** Severely irritating to eyes.

**Symptoms related to the physical, chemical, and toxicological characteristics:**  
Causes severe eye irritation. Causes skin irritation.

**Delayed and immediate effects and chronic effects from short or long-term exposure:**

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

**Numerical measures of toxicity (such as acute toxicity estimates):**

**Ingredient Information:**

Substance	Test Type (species)	Value
Tetrasodium EDTA	LD <sub>50</sub> Oral (Rat)	1658 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	None known
	LC <sub>50</sub> Inhalation (Rat)	None known
Alcohol Ethoxylate	LD <sub>50</sub> Oral (Rat)	1600 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	2500 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	None known
Alkyl dimethyl ethylbenzyl ammonium chloride	LD <sub>50</sub> Oral (Rat)	None known
	LD <sub>50</sub> Dermal (Rabbit)	2300 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	None known
Alkyl dimethyl benzyl ammonium chloride	LD <sub>50</sub> Oral (Rat)	850 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	2300 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	None known

- Skin corrosion/irritation:** Causes skin irritation.
- Serious eye damage/eye irritation:** Causes serious eye irritation
- Respiratory or skin sensitization:** Not expected to cause respiratory or skin sensitization.
- Germ cell mutagenicity:** Not expected to cause genetic defects.
- Carcinogenicity:** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.
- Reproductive toxicity:** Not expected to damage fertility or the unborn child.
- STOT – Single exposure:** Not expected to cause specific target organ toxicity after a single exposure.

**STOT – Repeat exposure:** Not expected to cause specific target organ toxicity after prolonged or repeated exposure.

**Aspiration hazard:** Not expected to be an aspiration hazard.

**If the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:**

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage

**SECTION 12: Ecological information**

**Ecotoxicity (aquatic and terrestrial, where available):**

**Ingredient Information:**

Substance	Test Type	Species	Value
Tetrasodium EDTA	LC <sub>50</sub>	Fish Lepomis macrochirus	41 mg/L 96h
		Fish Pimephales promelas	59.8 mg/L 96h
	EC <sub>50</sub>	Invertebrates - Daphnia magna	610 mg/L 24h
	EC <sub>50</sub>	Algae Desmodesmus subspicatus	1.01 mg/L 72h

**Persistence and Degradability:**

Not determined

**Bioaccumulative Potential:**

Not determined

**Mobility in Soil:**

Not determined.

**Other adverse effects (such as hazardous to the ozone layer):**

None known.

**SECTION 13: Disposal considerations**

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.**

**Product**

Follow label instructions for proper 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.

### **Contaminated packaging**

Do not reuse container. Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

This product contains one or more substances that are listed with the State of California as a hazardous waste

## **SECTION 14: Transport Information**

### **US Department of Transportation Classification (49CFR)**

Not regulated as dangerous for transport

### **Environmental hazards**

Marine pollutant: Not expected

### **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident

### **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

None known

## **SECTION 15: Regulatory Information**

### **USA:**

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All of the ingredients are listed on the U.S. EPA TSCA Inventory List.

### **Emergency Planning and Community Right To-Know Act (EPCRA)**

#### **Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

None of the components are listed

#### **SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370 (amended 2018)):**

Serious eye damage or eye irritation

#### **Section 313 Toxic Chemicals (40 CFR 372.65):**

None of the components are listed

**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):**

This product has been evaluated and does not require warning labeling under California Proposition 65.

Ethanol: Listed as carcinogen, 4/29/2011 (in alcoholic beverages), developmental toxicity, 10/1/1987 (in alcoholic beverages)

**Massachusetts Right to Know:** Ethanol is listed on the Massachusetts Right to Know list.

**New Jersey Right to Know** Ethanol is listed on the New Jersey Right to Know List.

**Pennsylvania Right to Know:** Ethanol is listed on the Pennsylvania Right to Know List.

**U.S. EPA LABEL INFORMATION:**

**EPA Pesticide Registration Number: 1839-220-92998**

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. See the product label for the FIFRA hazard information as required on the pesticide label.

**Difference between SDS and EPA Pesticide label:**

Signal Word: CAUTION

See Label for EPA FIRST AID and Hazard Statements

**SECTION 16: Other Information**

**NFPA 704: Standard System for the Identification of the Hazards of Materials for Emergency Response**



**Hazardous Materials Identification System (HMIS)**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>A</b>

**DISCLAIMER:**

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 1910.1200. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.