

**Section 1: Identification****Product Name** Benzalkonium Chloride Solution NF 50%**Commercial Name** Not available.**Product Use** Surfactant**Restrictions On Use** For industrial use only**Product Code** 50-1568**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300****Section 2: Hazard(s) Identification****OSHA Haz Com:** Health hazards Flammable liquids Category 3 Acute toxicity, oral Category 4 Acute toxicity, inhalation  
**CFR 1910.1200** Category 2 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Hazardous to the aquatic environment, acute Category 1 hazard Environmental hazards Hazardous to the aquatic environment, Category 1 long-term hazard**Signal Word** DANGER**Hazard Statement(s)** Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage.**Pictogram(s) or Symbol(s)****Precautionary Statement(s):****Prevention**

Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

**Response**

If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

**Storage**

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Section 3: Composition/Information on Ingredients****Substance/Mixture** Mixture  
**Components** Alkyl dimethyl benzyl ammonium chloride, Water  
**% By Weight** 47.5-52.5  
**CAS#** 68424-85-1  
**Molecular Weight** Not applicable.  
**Chemical Formula** Not applicable  
**Synonym(s)** N/A

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	47.5-52.5	Not available	ORAL (LD50): Acute: 240 mg/kg [Rat].
Water	7732-18-5	BALANCE	Not available	Not available

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
<b>Skin Contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
<b>Delayed</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Immediate Medical Attention**

If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Products of Combustion**

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Flammable liquid and vapor

**Firefighters Special Equipment and Precautions**

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. In case of fire and /or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

**Section 6: Accidental Release Measures**

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

**Section 7: Handling and Storage**

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Do not get this material on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers.

**Section 8: Exposure Controls/Personal Protection****Exposure Limits**

Ethyl alcohol 200 Proof TWA: 1000 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 1000 (ppm) from OSHA (PEL) [United States] TWA: 1900 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] TWA: 1000 (ppm) from NIOSH TWA: 1000 (ppm) [United Kingdom (UK)] TWA: 1920 (mg/m<sup>3</sup>) [United Kingdom (UK)] TWA: 1000 STEL: 1250 (ppm) [Canada] Consult local authorities for acceptable exposure limits.

**Engineering Controls**

Engineering Controls: Provide adequate ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Eye wash facilities and emergency shower must be available when handling this product.

**Personal Protection**

General: Eye wash fountain and emergency showers are recommended Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Skin protection Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing. Wear protective gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Respiratory protection Thermal hazards Wear appropriate thermal protective clothing, when necessary When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Liquid. (Clear)		
<b>Odor</b>	Not available		
<b>Odor Threshold</b>	Not available		
<b>Melting Point</b>	May start to solidify at -114.1	<b>pH</b>	6.2 - 8 (10% in water)
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	75 cPs @ 25 °C
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Estimated slower than ethyl ether
<b>Flash Point</b>	126F (52.5C) Pensky-Marter	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Not available		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical Stability</b>	Material is stable under normal conditions.
<b>Hazardous Polymerization</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible Materials</b>	This product may react with strong oxidizing agents. Anionic surfactants.
<b>Hazardous Decomposition Products</b>	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide,

**Section 11: Toxicological Information**

**RTECS** Not applicable

**Acute Toxicity**

Acute Toxicity Product Information Fatal if inhaled. Toxic if swallowed Chemical Name LD60 Oral LD60 Dermal LC60 Inhalation Ethanol 7060 mg/kg ( Rat ) Water 90 mUkg (Rat) Chronic Toxicity Chronic Toxicity Repeated or prolonged skin contact may cause skin irritation and /or dermatitis and sensitization of susceptible persons. Chemical Name I ACGIH I [ARC I NTP I OSHA Harmful by inhalation, in contact with skin and if swallowed.

**Skin Corrosion/Irritation**

Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation**

Causes serious eye damage.

**Respiratory or Skin Sensitization**

Not available.

**Germ Cell Mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive Toxicity**

This product is not expected to cause reproductive or developmental effects.

**Routes of Entry**

Inhalation: Not likely, due to the form of the product. Skin contact: Causes severe skin burns. Eye contact: Causes serious eye damage. Ingestion: Causes digestive tract burns. Harmful if swallowed. Symptoms related to the physical, chemical and toxicological characteristics: Burning pain and severe corrosive skin damage. Causes serious eye damage. Exposure may cause temporary irritation, redness, or discomfort.

**Symptoms Related to Exposure**

Burning pain and severe corrosive skin damage. Causes serious eye damage.

**Potential Health Effects**

Not available.

**Target Organ(s)**

Specific target organ toxicity - May cause damage to organs.

**Section 12: Ecological Information**
**Ecotoxicity**

Very toxic to aquatic organisms.

**Persistence and Degradability**

Readily biodegradable.

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**Section 13: Disposal Considerations**
**Waste Disposal**

Disposal instructions Dispose in accordance with all applicable regulations. Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste from residues / unused products: Dispose of in accordance with local regulations. Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Disposal of Container**

Not available.

**Other Considerations**

Not available.

**Section 14: Transport Information**
**DOT Classification**

DOT	UN number	UN2922	UN proper shipping name	Corrosive liquid, flammable, N.O.S. (Quaternary ammonium chloride, Ethanol), MARINE POLLUTANT
			Transport hazard class(es)	Class 8
	Subsidiary risk	3	Packing group	II Environmental hazards Marine pollutant
				Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Section 15: Regulatory Information**
**Regulations**

US federal regulations: US CERCLA Hazardous Substances: Reportable quantity \_Ethanol (64-17-5) 100 LBS  
 Reportable Quantity: There is no calculable reportable quantity (RQ) for this product. CERCLA (Superfund) reportable quantity:  
 NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 extremely hazardous substance: NO Section  
 311 hazardous chemical: NO Inventory status: Country(s) or region Inventory name  
 On Inventory (yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) Yes  
 Canada Domestic Substances List (DSL) Yes Canada  
 Non-Domestic Substances List (NDSL) No China Inventory of Existing  
 Chemical Substances in China (IECSC) Yes Europe European Inventory of New and Existing  
 Chemicals (EINECS) Yes Europe European List of Notified Chemical Substances (ELINCS)  
 No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea  
 Existing Chemicals List (ECL) Yes New Zealand New Zealand  
 Inventory No Philippines Philippine Inventory of Chemicals  
 and Chemical Substances Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory  
 Yes \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing  
 country(s) State regulations: US- California Proposition 65- Carcinogens & Reproductive Toxicity (CRT): Listed substance \_Ethanol  
 (64-17-5) Listed US- California Proposition 65- CRT: Listed date/Carcinogenic substance \_Ethanol (64-17-5)  
 Listed: July 1, 1988 Carcinogenic US- California Proposition 65- CRT: Listed date/Developmental toxin \_Ethanol (64-17-5)  
 Listed: October 1, 1987 Developmental toxin US- New Jersey RTK - Substances: Listed substance \_Ethanol (64-17-5)  
 Substance no. 0844 Listed. US- Pennsylvania RTK- Hazardous Substances: Listed substance \_Ethanol (64-17-5)  
 Listed

**Other**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Section 16: Other Information**

This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law,  
 nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including  
 any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use  
 trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own  
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 use of this information constitutes consent to these terms and conditions.