MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	DECON-QUAT® 100
Revision date	04-14-2011
Version #	01
CAS #	Mixture
MSDS ID	DQ-98-01
Product use Company name Address	Disinfectant/Sanitizer. Veltek Associates, Inc. 15 Lee Blvd, Malvern, PA 19355, USA
Telephone number	610-644-8335
Contact person	All questions regarding chemical content be directed to CareCHEM 24
Emergency telephone	CARECHEM 24: 1-866-928-0789 (USA and Canada), 44-1235-239-670 (EU),
number	44-1235-239-671(Arabic), 86-10-5100-3039 (China)
E-mail	vai@sterile.com
2. Hazards Identification	

Physical state	Liquid.
Appearance	Clear. Colorless to straw colored liquid with benzaldehyde (organic) odor.
Emergency overview	DANGER! Causes eye burns. Causes skin burns.
OSHA regulatory status	This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects	
Routes of exposure	Eye contact. Ingestion. Inhalation. Skin contact.
Eyes	Causes eye burns. Prolonged contact causes serious eye and tissue damage.
Skin	Causes skin burns. May cause serious chemical burns to the skin.
Inhalation	In high concentrations, vapors may be irritating to the respiratory system.
Ingestion	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Target organs	Eyes. Skin. Respiratory system.
Chronic effects	Prolonged skin contact may cause dermatitis.
Signs and symptoms	Extreme irritation of eyes and mucous membranes, including burning and tearing. May cause burns in mucous membranes, throat, esophagus and stomach. May cause serious chemical burns to the skin.
Potential environmental effects	The product contains a substance which is very toxic to aquatic organisms.

3. Composition / Information on Ingredients

Components		CAS #	Percent
Water		7732-18-5	88 - 92
Alkyl dimethyl benzyl ammoniu	ım chloride (C12-18)	68391-01-5	4 - 6
Alkyl dimethyl ethyl benzyl am	monium chloride (C12-14)	85409-23-0	4 - 6
Composition comments	All concentrations are in percent by weigl percent by volume.	ht unless ingredient is a gas. Ga	as concentrations are in
4. First Aid Measures			
First aid procedures			
Eye contact	Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.		
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately! Chemical burns must be treated by a physician.		

DECON-QUAT® 100

Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort occurs.
Ingestion	Immediately rinse mouth and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Notes to physician	Treat symptomatically. Symptoms may be delayed.
General advice	Chemical burns must be treated by a physician.

5. Fire Fighting Measures

0 0		
Flammable properties	The product is not flammable.	
Extinguishing media		
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media	None known.	
Protection of firefighters		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Thermal decomposition products are toxic and corrosive.	
Protective equipment and precautions for firefighters	Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.	
Specific methods	Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.	
6. Accidental Release Mea	sures	
Personal precautions	Ensure adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.	
Environmental precautions	Do not allow to enter drains, sewers or watercourses. Collect and dispose of spillage as indicated in Section 13 of the MSDS. Contact local authorities in case of spillage to drain/aquatic environment.	
Methods for containment	Collect spillage.	
Methods for cleaning up	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations.	
Other information	Clean up in accordance with all applicable regulations.	
7. Handling and Storage		
Handling	Provide adequate ventilation. Avoid inhalation of vapors/mist and contact with skin and eyes. Wear appropriate personal protective equipment. Handle and open container with care. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.	
Storage	Keep container tightly closed and in a well-ventilated place. Store away from incompatible materials.	
8. Exposure Controls / Personal Protection		
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Engineering controls	Provide adequate ventilation and minimize the risk of inhalation of vapors. Shower, hand and eye washing facilities near the workplace are recommended.	
Personal protective equipment		
Eye / face protection	Use approved safety goggles or face shield.	
Skin protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.	
Respiratory protection	In case of inadequate ventilation: Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.	

General hygiene considerations 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.

9. Physical & Chemical Properties

Appearance	Clear. Colorless to straw colored liquid with benzaldehyde (organic) odor.
Color	Clear. Colorless to straw.
Odor	Benzaldehyde (organic) odor.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
рН	6 - 9
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	Cleveland Open Cup None when heated to 100°C
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Estimated to be heavier than air.
Specific gravity	0.994
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2.035 mm²/s (24°C)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Elevated temperatures. Freezing.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen Oxides. Hydrogen chloride gas.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data		
Product		Test Results
DECON-QUAT® 100 (Mixture)		Acute Dermal LD50 Rabbit: > 2000 mg/kg
Components		Acute Oral LD50 Rat: > 2500 mg/kg Test Results
Alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)		Acute Dermal LD50 Rat: 1420 mg/kg
		Acute Oral LD50 Rat: 240 mg/kg
Toxicological information	Corrosive.	
Acute effects	May cause burns of the gastroir	ntestinal tract if swallowed. May be harmful if swallowed.
Local effects		ause burns to the skin, eyes and mucous membranes. In high irritating to the respiratory system.

Sensitization	No data available.
Chronic effects	Prolonged skin contact may cause dermatitis.
Carcinogenicity	No data available.
Epidemiology	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Symptoms and target organs	Corrosive effects. Prolonged contact causes serious eye and tissue damage. May cause serious chemical burns to the skin.
Further information	Prolonged skin contact may cause dermatitis.

12. Ecological Information

Ecotoxicological data Components		Test Results
Alkyl dimethyl benzyl ammoniu	um chloride (C12-18) (68391-01-5)	LC50 Bluegill (Lepomis macrochirus): 0.223 - 0.46 mg/l 96 hours
Ecotoxicity	The product contains a substand	ce which is very toxic to aquatic organisms.
Persistence and degradability	No data available.	
Bioaccumulation / Accumulation	No data available.	
Partition coefficient (n-octanol/water)	No data available.	
Mobility in environmental media	The product is water soluble and	d may spread in water systems.
13. Disposal Considera	tions	
Disposal instructions		container at hazardous or special waste collection point. Do not is material to drain into sewers/water supplies. Dispose in egulations.

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of in accordance with local regulations.

14. Transport Information

Packing group

DOT

Basic shipping requirements:

UN number Proper shipping name Hazard class Packing group Environmental hazards	UN1903 Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound) 8 III
Marine pollutant Labels	Yes
required Additional information:	8
Special provisions	IB3, T4, TP1
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
Basic shipping requiremen	ts:
UN number	1903
Proper shipping name Hazard class	Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound) 8

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Environmental hazards			
Marine pollutant Additional information:	Yes		
ERG code	8L		
IMDG			
Basic shipping requirement	s:		
UN number	1903		
Proper shipping name	Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)		
Hazard class Packing	8		
group Environmental hazards	111		
	Yes		
Marine pollutant EmS No.	F-A, S-B		
TDG	, • _		
Basic shipping requirement	·c·		
Proper shipping name	Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)		
Hazard class UN	8		
number Packing	UN1903		
group Marine	III		
pollutant	Yes		
Additional information:			
Special provisions	16		
15. Regulatory Information	n		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Export	Notification(40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA (Superfund) reportable	e guantity (lbs) (40 CFR 302.4)		
None			
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes		
Ũ	Delayed Hazard - No		
	Fire Hazard - No		
	Pressure Hazard - No Reactivity Hazard - No		
Section 302 extremely	No		
hazardous substance (40			
CRF 355, Appendix A)			
Section 311/312 (40 CFR 370)	Yes		
Drug Enforcement	Not controlled		
Administration (DEA) (21 CFR			
1308.11-15)			
Canadian regulations	This product has been classified in accordance with the hazard criteria of the contains all the information required by the CPR.	he CPR and the MSDS	
WHMIS status	Controlled		
WHMIS classification	E - Corrosive		
WHMIS labeling			
レフ			
Inventory status			
Inventory status		On inventors (
Country(s) or region Australia	Inventory name Australian Inventory of Chemical Substances (AICS)	On inventory (yes/no)*	

Inventory name Australian Inventory of Chemical Substances (AICS)

No

Australia

Country(s) or region	Inventory name	On inventory (yes/no)*	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the gov	erning country(s)	
State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.		
16. Other Information			
Further information	HMIS® is a registered trade and service mark of the NPCA. G - Safety Glasses, Gloves, Vapor Respirator		
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0 Personal protection: G		
NFPA ratings	Health: 3		

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard

Flammability: 0 Instability: 0

04-14-2011

workers and the environment.

Disclaimer

Issue date