



Material Safety Data Sheet

1. Chemical Product & Company Data

Product Name: Microban QGC	
Manufacturer: Il Rep-Z, Inc. 4660 Elizabeth Street Coraopolis, PA 15108 Telephone: 1-412-264-8340	Supplier:

2. Ingredients

Name	CAS #	UN #	% by volume
N, N-Dialkyl (C ₈₋₁₀) -N,N-dimethylammonium chloride	68424-95-3		3.3
N-Alkyl (C ₁₂₋₁₆) dimethylbenzylammonium chloride	68424-85-1		2.2
Secondary Alcohol Ethoxylates	84133-50-6		2.5
Tetrasodium ethylenediamine tetraacetate	64-02-8		1.9
Sodium metasilicate	6834-92-0		0.3
Ethanol	64-17-5		1.0
Water	7732-18-5		

3. Hazards Identification

Emergency Overview

Alkaline Liquid Mixture.

NOTE: Hazard information is based on the characteristics of the components of this mixture.

Ingestion - May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or unconsciousness may occur.

Inhalation - Low concentration of the vapor may cause irritation of the respiratory tract with possible chest pain and coughing. High concentrations may cause headache and drowsiness.

Eye Contact - Causes eye irritation and possible permanent eye injury.

Skin Contact - Prolonged contact may cause discomfort, redness, drying and defatting of the skin.

4. First Aid

Ingestion - If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). **Do not** induce vomiting.

Inhalation - Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen.

Eye Contact - Flush eyes with water for 15 minutes. Seek immediate medical attention.

Skin Contact - Wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes.

Note to physician - Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

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5. Fire Fighting Measures

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions?	
Flashpoint: >200 °F (93.3 °C)	Upper flammable limit % by volume n. av.	Lower flammable limit % by volume n. av.
Autoignition temperature n. av.	Hazardous combustion products Products of combustion are toxic	Explosion data n. ap.
Means of extinction: Apply alcohol type or all purpose foam for large fires. Use dry chemical media or carbon dioxide extinguishers for small fires. SCBA and bunker gear for fire department personnel.		

6. Accidental Release Measures

<p>Warning: May be corrosive. Wear personal protective equipment. Do not allow spill to reach watercourse or sewers. Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace. Collect and store waste materials in suitable containers for disposal i.e. metal drums. Floors may become slippery.</p>

7. Handling & Storage

<p>PRECAUTIONS FOR STORAGE AND HANDLING: Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.</p>

8. Exposure Controls & Personal Protection

Personal Protective Equipment		
Gloves Rubber or neoprene	Respirator Proper ventilation and/or NIOSH TC-23C organic vapor respirator where mists or vapors are generated is advised in the absence of proper environmental controls.	Eye Goggles or full face respirator
Footwear n. ap.	Clothing Coveralls or equivalent	Other Eye wash; safety shower.

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9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Clear liquid, odor varies with fragrance	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) n. av.	Vapor density (Air=1) n. av.
Evaporation (butyl acetate = 1) n.av.	Boiling point 215.6 °F (102 °C)	Freezing point n. av.
pH 12.4	Specific gravity 1.01 @ 77 °F (25 °C)	Coefficient water/oil distribution n. av.
Solubility in water 100%	Viscosity <100 cps @ 77 °F (25 °C)	% Volatiles (by weight) 90%

10. Stability and Reactivity

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions?
Incompatibility with other substances Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions? Avoid strong oxidizing agents.
Reactivity, and under what conditions?	Stable under normal conditions.
Hazardous decomposition products?	Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines, and other organic materials and oxides of carbon and nitrogen.

11. Toxicological Information

Route of Entry Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion <input type="checkbox"/>			
oral LD ₅₀ (rat): 2800 mg/kg dermal LD ₅₀ (rabbit): 2850 mg/kg eye irritation (rabbit): extreme irritant (primary irritation = 97.5 without washing, and 93.3 with washing) skin irritation (rabbit): severe irritant (primary irritation index 8.0) DOT skin corrosivity (rabbit): non-corrosive skin irritation at 1:64 use dilution: non-irritant (primary irritation index = 0.0)			
Carcinogenicity No	Mutagenicity No	Teratogenicity No	Reproductive toxicity No
Synergistic products No	Sensitization No	Neurotoxicity No	Target organs Eyes and Skin

12. Ecological Information

Product is hazardous to aquatic life.

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13. Disposal Considerations

Do not dispose of product in storm or sanitary sewer systems.
Do not allow discharge into groundwater or a watercourse.
If product is to be disposed of, contact a licensed or registered waste disposal firm to incinerate the product.

14. Transport Information

Shipping Name: NOT REGULATED
Hazard Class:
UN Identification #:

15. Regulatory Information

This material safety data sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Act (Can.) and the Controlled Products Regulations (Can.) This product has been classified in accordance with the hazard criteria of the CPR (Can.) and the MSDS contains all the information required by the CPR (Can.).

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

Chemical Name	CAS Number	Hazard *) Categories
N, N-Dialkyl (C ₈₋₁₀)-N,N-dimethylammonium chloride	68424-95-3	A
N-Alkyl (C ₁₂₋₁₆)dimethylbenzylammonium chloride	68424-85-1	A
Ethanol	64-17-5	F
Secondary alcohol ethoxylates	84133-50-6	A

*) The five hazard categories are as follows: F=FIRE HAZARD; S=SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD.

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS: Found on U.S. EPA TSCA inventory.

Canadian Workplace Hazardous Material Information System (WHMIS) Classification
Not Regulated

Domestic Substance List (DSL) Status
All the components of this material are currently listed on the Canadian DSL.

Transport of Dangerous Goods (TDG)
Not Regulated

16. Other Information

This product is a disinfectant and cleaner.

For chemical emergency during transportation call INFOTRAC (US) **1-800-535-5053** (INT'L) **1-352-323-3500**

Prepared by: II Rep-Z, Inc., Coraopolis, PA / Cliff Zlotnik Phone No: 1-412-264-8340 Date: August 3, 2007

Abbreviations:

n. av. = not available	n. ap. = not applicable	ppm = parts per million
mm Hg = millimeters of Mercury	PMCC = Pensky Martens Closed Cup	TCC = Tagliabue Closed Cup
COC = Cleveland Open Cup	TWA = Time Weighted Average	STEL = Short Term Exposure Limit
LD = Lethal Dose	LC = Lethal Concentration	CS = centistokes