



MATERIAL SAFETY DATA SHEET (MSDS)

Quatromyicide II Liquid Germicide and Sanitizer

Germicides



SECTION I ▶ PRODUCT IDENTIFICATION					
Product Name		Product Type		WHMIS Classification	
Quatromyicide II		Liquid Germicide and Sanitizer		Exempt	
SECTION II ▶ HAZARDOUS INGREDIENTS					
Chemical Name		Cas Registry No.	%	Toxicity	
Ethanol		64-17-5	1-5	TLV 1000 ppm	
N, N-Dialkyl (C8-10) - N, N-dimethylammonium Chloride		68424-95-3	5-10	LD50 oral (RAT) 168 mg/kg	
N-Alkyl (C12-16) - N, N-dimethyl-N-benzylammonium		68424-85-1	1-5	LD50 oral (RAT) 400 mg/kg	
SECTION III ▶ PHYSICAL DATA					
Appearance	Odour	pH	Boiling Point	Specific Gravity	Solubility in Water
Clear colourless liquid	Unscented	7.5	100 °C	1.0	100 %
SECTION IV ▶ FIRE AND EXPLOSION HAZARD DATA					
Flash Point (°C): None			Extinguishing media: Not Applicable		
Special fire fighting procedures: None					
Unusual fire and explosion hazards: None					
SECTION V ▶ TOXICOLOGICAL PROPERTIES					
HAZARD RATING: Health = 2 Flammability = 0 Reactivity = 1					Rating System 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme
Swallowing: Slightly Toxic					
Inhalation: Slight Irritant					
Skin Absorption: Unknown					
Skin Contact: Slight to Moderate Irritant					
Eye Contact: Irritant					
Special Warning: None					
SECTION VI ▶ FIRST AID MEASURES					
Ingestion: Promptly drink large quantities of milk, egg whites, gelatin or water. Avoid alcohol. Call a physician immediately.					
Inhalation: Not Applicable					
Skin: Flush thoroughly with water for at least 15 minutes. Remove and wash contaminated clothing.					
Eyes: Flush thoroughly with water for at least 15 minutes. Call a physician.					
SECTION VII ▶ REACTIVITY DATA					
Stable: Yes					
Conditions to avoid: None					
Incompatibility with other materials: None					
Hazardous decomposition products: None					
Hazardous polymerization: Will not occur.					
SECTION VIII ▶ PREVENTIVE MEASURES					
Hand protection: Yes					
Eye protection: Yes					
Ventilation: General					
Respiratory protection: None					
Other protective equipment: In case of spills, wear chemical resistant apron and boots.					
Steps to be taken in case material is released or spilled: Mop up spillage. Rinse spill area with water and allow to dry.					
Waste disposal method: Flush with water into waste systems in accordance with municipal, provincial and federal regulations.					
Precautions to be taken in handling and storage: Normal handling processes. Inside storage at 4-40 °C recommended.					
Other precautions: Follow label use instructions.					
UN: Not Applicable		TDG Class: None		Packing Group: Not Applicable	
TDG Emergency Telephone Number: 613-996-666 (COLLECT)					
SECTION IX ▶ PREPERATION DATA					
Prepared by: D.R. Dunlop			Last updated: October 30, 2009		
Location: Dustbane Products Limited, 25 Pickering Place, Ottawa, Ontario, K1G 5P4 – 613-745-6861					

Quatromyicide II

Liquid Germicide and Sanitizer

“Quatromyicide II is a broad spectrum quaternary ammonium bactericidal liquid which can be used as a final rinse to disinfect, sanitize and deodorize all surfaces not affected by water alone.”

HOW TO USE

Before using QUATROMYOICIDE II all surfaces should be thoroughly cleaned, then rinsed with potable water in order to obtain the maximum disinfecting effect.

Hand Dishwashing: 2 mL of Quatromyicide II to 1 litre of water (1:500) in rinse tank (200 PPM active germicide).

Food Processing Plants: 2 mL of Quatromyicide II to 1 litre of water (1:500).

Meat Processing Plants and Meat Preparation Areas: 2 mL of Quatromyicide II to 1 litre of water (1:500).

Laundries: For sanitizing and disinfecting fabrics add 4.5 mL Quatromyicide II to 1 litre of water (1:250).

Dairies, Creameries and Milk Farms: Use 2 mL of Quatromyicide II to 1 litre of water for cleaning (1:500). To disinfect use 4.5mL of Quatromyicide II to 1 litre of water. If a spray solution is desired, mix 8 mL of Quatromyicide II to 1 litre of water (1:125).

Bakeries: For general sanitizing use 2 mL of Quatromyicide II to 1 litre of water (1:500).

Quatromyicide II is compatible with all non-ionic detergents.

MICROBIOLOGY EFFICACY DATA SUMMARY

Quatromyicide II kills *Pseudomonas aeruginosa* (*Pseudomonas*), *Staphylococcus aureus* (*Staph*), *Salmonella choleraesuis* (*Salmonella*), *Campylobacter jejuni* (*Campylobacter*), *Listeria monocytogenes* (*Listeria*), *Escherichia coli* (*E. coli*), *Escherichia coli* pathogenic strain 0157:H7 (pathogenic *E. coli*), *Klebsiella pneumoniae* (*Klebsiella*), *Pseudomonas cepacia* (*Pseudomonas*), *Salmonella typhi* (*Salmonella*), *Herpes Simplex Virus 1 & 2* (*Herpes*), *Vaccinia* (*Pox Virus*), *Trichophyton mentagrophytes* (*The Athlete's Foot Fungus*).

Quatromyicide II reduces 99.9% *Escherichia coli*, pathogenic *Escheria coli* 0157:H7, *Listeria monocytogenes*, *Staphylococcus aureus* and *Klebsiella pneumoniae* in 60 seconds.

At 8mL per 4L of water dilution (200 ppm) Quatromyicide II is an effective sanitizer against *Salmonella choleraesuis* (*Salmonella*), *Escherichia coli*, *Shigella sonnei* and *Staphylococcus aureus*, *Yersinia enterocolitica*, *Campylobacter jejuni*, *Escherichia coli* 0157:H7 and *Listeria monocytogenes* as determined by the AOCA germicide and detergent sanitizer method in the presence of 400 ppm hardness.

Quatromyicide II is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities.

Quatromyicide II is effective against Avian Influenza virus, Avian Infectious Bronchitis virus, Pseudorabies virus, Canine distemper virus, Newcastle Disease, Marek's Disease Virus, Infectious Bronchitis Arkansas 99' Virus, Human Immunodeficiency Virus (HIV), Adenovirus Type 5, and Infectious Laryngotracheitis Virus.

Quatromyicide II is a Hospital Disinfectant at 18 mL per 4L (450 ppm active), Bactericidal according to the current AOAC Disinfectants Use-Dilution Method, Fungicidal according to the AOAC fungicidal test and Virucidal* according to the virucidal qualification, modified in the presence of 5% organic serum against: *Campylobacter jejuni*, *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella choleraesuis*, *Salmonella typhi*, *Escherichia coli* pathogenic strain 0157:H7, *Trichophyton*, *mentagrophytes*, *Yersinia enterocolitica*, *Influenza A2/Hong Kong (H1N1), *Vaccinia*, Human Immunodeficiency Virus, Adenovirus Type 5, Infectious Laryngotracheitis Virus, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Pseudomonas cepacia*, *Escherichia coli*, *Herpes Simplex Type 1*, *Herpes Simplex Type 2*

SPECIFICATIONS

Colour	clear, colourless liquid
Odour	Neutral
pH (conc.)	7.5
W.H.M.I.S. Classification	Exempt
D.I.N. Registration	02321963
Agri-Food Approved	yes