

MATERIAL SAFETY DATA SHEET (MSDS)

Quat Plus M5 *Liquid Disinfectant*

Effective against influenza A (H1N1)



Germicides ≡

SECTION I PROD	DUCT IDENTIFICAT	ION							
Product Name	Product Ty	ре			/HMIS Classification				
Quat Plus M5						Exempt			
SECTION II HAZARDOUS INGREDIENTS									
Chemical Name			Cas Registry No.	%		Toxicity			
N,N-DIALKYL-N,N-dimethyl ammonium chloride			68424-95-3	5-10	LD ₅₀ ORAL (RAT) 455 mg/kg				
			00121 99 9	5 10					
	SICAL DATA	,			- 1				
Appearance	Odour	pН	Boiling Point	Specific G					
Clear colourless liquid	Unscented	10.5	100 °C	1.0		100 %			
SECTION IV FIRE	AND EXPLOSION I	HAZARD	DATA						
Flash Point (°C): None			Extinguising media: N	ot Applicable					
Special fire fighting procedures: None									
Unusual fire and explosion									
	COLOGICAL PROP								
	th = 2 Flammability	= 0 Read	ctivity = 0			Rating System			
Swallowing: Slightly Toxic						0 = Insignificant			
	Inhalation: Not Applicable								
Skin Absortion: Unknown						$\begin{array}{c} 1 = \text{Slight} \\ 2 = \text{Moderate} \end{array}$			
Skin Contact: Irritant	3 = High								
Eye Contact: Irritant						4 = Extreme			
Special Warning: None									
SECTION VI FIRS	FAID 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 REAC	CTIVITY DATA								
Stable: Yes									
Conditions to avoid: None Incompatibility with other materials: None									
Hazardous decomposition products: None									
Hazardous polymerization: Will not occur.									
	ENTIVE MEASURE								
	Hand protection: Gloves made of neoprene, rubber, polyvinyl chloride, Viton or nitrile.								
Eye protection: Safety glasses with side shields.									
Ventilation: General									
Respiratory protection: No									
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: 613-996-6666 (COLLECT)									
	PERATION DATA								
Prepared by: M. Mikoluk Last updated: June 1, 2015									
Location: Dustbane Products Limited, 25 Pickering Place, Ottawa, Ontario, K1G 5P4 – 613-745-6861									

Quat Plus M5 Liquid Disinfectant

"This quat-based disinfectant cleaner kills a broad spectrum of bacteria, virus and fungi without the harsh smell of chemicals."

FEATURES AND BENEFITS

Reduced environmental impact: ECOLOGO Certified UL 2794 - Disinfectants and Disinfectant Cleaners.

Multiple Claims: effectively destroys a broad range of bacteria, fungi and viruses including: Pseudomonas aeruginosa, Salmonella choleraesuis, Staphyloccoccus aureus, HIV-1 and Trichophyton mentagrophytes.

Dual Purpose: Cleans and disinfects.

Spill-Resistant Protection: Prevents leaks, prevents accidental spillage, ensures employee safety, prevents chemical waste, enhances use of dispensing system.

WHERE TO USE

Quat Plus M5 was formulated for use in health care and food processing facilities. It may be used to disinfect all hard, non-porous surfaces including walls, floors, tubs, sinks, countertops, garbage pails, furniture etc.

HOW TO USE

Preclean heavily soiled surfaces before using Quat Plus. Dilute with unheated tap water according to the dilution rates listed below. Apply the solution with a sponge, mop or cloth. Allow 10 minutes contact time for complete disinfection.

Recommended Dilution Rates:

Heavy Cleaning	1:40
All Purpose	
Regular Cleaning	
Automatic Scrubber	
Disinfection	1:128

Note: Adjust dilution rates to suit your cleaning needs.

MOLD AND MILDEW: When mixed at a rate of 1:128, QUAT PLUS M5 effectively inhibits the growth of odour-causing mold and mildew. Apply the solution and allow it to dry on the treated surface. Repeat treatment when mold or mildew returns.

DISINFECTING: Allow a minimum contact time of 10 minutes in a single application. Surfaces subject to direct food contact should be adequately rinsed with potable water. Heavily soiled surfaces must be precleaned.

HIV-1: When mixed at a rate of 1:128, QUAT PLUS M5 may be used to disinfect and decontaminate hard surfaces exposed to blood or other body fluids that contain the HIV-1 virus. Thoroughly clean all hard surfaces removing blood and body fluids prior to disinfection. Allow surfaces to remain wet for a minimum of 4 minutes. Wear protective clothing including latex gloves, gown, mask and eye goggles. Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations. [Note: efficacy testing was done in the presence of hard water (400 ppm as CaCO₃) and a soil load (5% blood serum)].

SPECIFICATIONS							
N,N-DIALKYL-N,N-dimethyl ammonium chloride: 7.7%							
pH, concentrate @ 25°C: 1	10.5						
pH, at 1:128 @ 25°C: 9.0-9	9.5						
Colour: Colourless							
Odour: Unscented							
DIN#: 02298694							
CFIA Approval: Yes							
Quat Plus M5 is an effec	tive bactericide, f	ungicide an	d virucide as d	lemonstrated by the following support	data:		
a) CLAIM - DISINFECTANT - AC Pseudomonas aeruginosa Staphylococcus aureus	DAC USE - DILUTION T ATTC# 15542 ATTC# 6538	TEST AT 600 pp 10 10	om (dilution ratio o 0/10 0/10	of 1:80 in 250 ppm hard water).			

b) CLAIM - DISINFECTANT - AOAC USE - DILUTION TEST AT 600 ppm (dilution ratio of 1:80 in 250 ppm hard water and 5% organic soil). Salmonella enterica ATTC# 10708 10 0/10

c) CLAIM - FUNGICIDE - AOAC FUNGICIDAL USE - DILUTION TEST AT 600 ppm (dilution ratio of 1:80 in 250 ppm hard water and 5% organic soil). Trichophyton mentagrophytes ATTC# 9533 10 0/10

 d) CLAIM - VIRUCIDE - EPA VIRUCIDAL EFFICACY OF A DISINFECTANT FOR USE ON INANIMATE ENVIRONMENTAL SURFACES AT 600 ppm (dilution ratio of 1:80 in 250 ppm hard water and 5% organic soil). HIV type 1
 Strain HTLV III
 Titer reduction ≥ 3.5 log₁₀