Steramine[®] Disinfectant-Sanitizer-Deodorizer-Fungicide-Mildewstat-Virucide*

Directions for Sanitizing Food Contact Surfaces in Public Eating Places, Dairy Processing Equipment and Food Processing Equipment, Utensils, Regulated by 40CFR sec 180.940 (a):

- 1. Scrape, flush or presoak articles (whether mobile or stationary) to remove gross food particles and soil.
- 2. Thoroughly wash articles with an appropriate detergent or cleaner.
- 3. Rinse articles thoroughly with potable water.
- 4. Sanitize articles using a solution of 1 ounce Steramine® per 4 gallons of water (or equivalent use dilution)(200 ppm active). Articles that can be immersed in solution must remain in solution for 60 seconds. Articles too large for immersing should be thoroughly wetted by rinsing, spraying or swabbing.
- 5. Remove immersed items from solutions and make certain all surfaces are adequately drained and air dried. No potable water rinse allowed. Thoroughly drain non-immersed items and air dry.

Wisconsin State Division of Health, Directions for Eating Establishments (Not applicable in California)

- 1. Scrape and pre-wash utensils and glasses whenever possible.
- 2. Wash with a good detergent or compatible cleaner.
- 3. Rinse with potable water.
- 4. Sanitize in a 1 ounce solution of Steramine® per 4 gallons water (200 ppm active quaternary) (or equivalent use dilution). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
- 5. Place sanitized utensils on a rack or drain board to air-dry.
- 6. Prepare fresh sanitizing solution at least daily or when visibly soiled or diluted.

NOTE: A clean potable water rinse following sanitization is not permitted under Section HSS 196.13 of the Wisconsin Administrative Code.





For Stock Solution:

Use ST-9956 *Steramine*® Stock Solution Bottle to prepare a Sanitizer Stock Solution that can be converted for use in a spray bottle for sanitizing above floor and food contact surfaces too large to sanitize by immersion. Fill this bottle to ridge with water and add contents of one (1) pack of ST-718 Steramine Sanitizer concentrate. Empty and rinse bottle before refilling.



For Soaking Wiping Cloths:

- 1. Fill ST-9961 *Steramine*® Sanitizer Bucket to indicated line.
- 2. Add one pump stroke (1 ounce) from ST-9956 Stock Solution Bottle.
- 3. Soak clean wiping cloths between use.



For Spray Cleaning:

The Steramine® Sanitizer Spray Bottle ST-9959 is for use only with SANI-SERVICE SYSTEM Steramine Sanitizer. Fill this bottle with water to the uppermost ridge (see diagram) on the neck of the bottle and add one pump (1 ounce) from your ST-9956 Sanitizer Stock Solution Bottle. For sanitizing food contact surfaces or equipment too large for immersion, spray prewashed objects thoroughly. Allow sanitized surface to drain and/or air dry. Do not rinse. Empty and rinse bottle before refilling. See carton label for precautionary and additional use instructions.

Steramine® Sanitizer									
Application Size	Steramine® 32 Ounce Spray Bottle ST-9959	Steramine® Sanitizer Bucket ST-9961	3 Gallon Sink	4 Gallon Sink	8 Gallon Sink	16 Gallon Sink	Steramine® 64-ounce Sanitizer Stock Solution Bottle & Pump* ST-9956		
Steramine ® Sanitizer / Disinfectant	*Use 1 stroke of ST-9956 Steramine® Stock Solution Pump to make 32 ounces of sanitizer solution	*Use 1 stroke of ST-9956 Steramine® Stock Solution Pump to make 32 ounces of sanitizer solution	ST-767 0.75 fl. oz.	ST-722 1fl. oz.	ST-723 2 fl. oz	ST-718 4 fl. oz.	ST-718 and ST-906 4 fl. oz.		

Disinfection Performance in Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions:

Add 4 ounces of Steramine® to 5 gallons of water (or equivalent use dilution) (625 ppm active quaternary). Treated surfaces must remain wet for 10 minutes. Please consult the Steramine® Efficacy Summary for performance data against specific pathogens and consult the Steramine® product case label for specific usage instructions.

General Disinfection Performance, Non-Medical (Schools, Restaurants, Food Service, beverage and food processing plants): Add 3 ounces of Steramine® to 5 gallons of water (or equivalent use dilution)(469 ppm active quaternary). Treated surfaces must remain wet for 10 minutes. Please consult the Steramine® Efficacy Summary for performance data against specific pathogens and consult the Steramine® product case label for specific usage instructions.



Virucidal* Performance: At 4 ounces per 5 gallons use level (or equivalent use dilution)(625 ppm active quaternary). Steramine® was evaluated in the presence of 5% serum with a 10 minute contact time. Please consult the Steramine® Efficacy Summary for performance data against specific pathogens and consult the Steramine® product case label for specific usage instructions.

Disinfection/Fungicide/Virucide* of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels:

Remove all animals and feeds from premises, vehicles and enclosures such as coops and crates.

Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 4 ounces of Steramine® per 5 gallons of water (or equivalent use dilution)(625 ppm active quaternary). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling or restraining animals as well as forks, shovels, and scrapers used for removing litter and manure.

*KILLS HCV AND HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (associated with AIDS), Hepatitis C virus (HCV) and Hepatitis B virus (HBV).

"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HCV AND HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS."

Personal Protection: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

Disposal of Infectious Materials: Blood and other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time: For HBV and HCV, leave surfaces wet for 10 minutes with 4 ounces of Steramine® per 5 gallons of water (or equivalent use dilution) (625 ppm active quaternary). Efficacy tests have demonstrated that Steramine® is an effective bactericide, virucide and fungicide in the presence of organic soil (5% blood serum).

	Steramine® Disinfectant								
Application Size	16 ounce spray bottle	32 ounce spray bottle	1 gallon mop bucket	2 gallon mop bucket	4 gallon mop bucket	5 gallon Quik Tank			
Steramine ® Sanitizer / Disinfectant	Use ST-718 in the 5 gallon Quik Tank	Use ST-718 in the 5 gallon Quik Tank	ST-7221	ST-723 ²	ST-718 ³	ST-718 ³			

¹ Each Steramine® ST-722 1 fl. oz. pack makes 1.67 or 1.25 gallons depending on application. See case label.

² Each Steramine® ST-723 2 fl. oz. pack makes 3.33 or 2.50 gallons depending on application. See case label.

³ Each Steramine® ST-718 4 fl. oz. pack makes 5.67 or 5.00 gallons depending on application. See case label.

MATERIAL SAFETY DATA SHEET

			MANUFACTURER'S IDENTITY					
Product Name:	Steramine®	Formula ID Numbe						
Troduct Name.	oterummes	MSDS File Name:						HAZARD RATING
Synonyms:	ST-718, ST-722, ST-723, ST-767, ST-906	EPA Reg #: 1032	4-63-3640	Conc	entrate	In Dil	ution	4 - F utnome
	Steramine® Disinfectant/Sanitizer	DOT Hazard Class	: 8, Corrosive	0	Flam	mability	0	4 = Extreme 3 = High
			ne: UN1903, disinfectants, liquid, corrosive	, 2	H	ealth	1	2 = Moderate
Company:	Stearns Packaging Corporation 4200 Sycamore Avenue (53714)		ammonium.compound), 8, PG III, Ltd. Qty.	0	Rea	activity	0	1 = Slight 0 = Insignificant
	PO Box 3216	Hazard Label: Ltd		None	Specia	al Hazard	None	
	Madison, WI 53704-0216	NSF Certified: No	ne					
Fax: Website:	800-655-5008 608-246-5149 www.stearnspkg.com	Emergency Cor	ntact: CHEM-TEL, 800-255-3924	A	bbrevia	ation Key N.D.=No		Not Applicable, nined
	SECTION 2 – H		REDIENTS / IDENTITY INFORI	ΜΑΤΙΟ	N			
CHEMICAL I		CAS NO.		L(ppm)		TLV(pp	m)	%(Optional)
Water		7732-18-5			-		-	
	l benzyl ammonium chloride (C ₁₂₋₁₈)	68391-01-5		N.D.		N.D.		5%
• •	I ethylbenzyl ammonium chloride(C ₁₂₋₁₄) 313 Title III Notification Required: No	85409-23-0	Corrosive/Disinfectant	N.D.		N.D.		5%
UNIX DECUON		SECTION 2	- PHYSICAL DATA					
Appearance an	d Odor: Solubility in water:		Vapor Pressure (mm Hq): N.D.		nН	(Concent	rate): 6	- 8
Clear liqu	-		Vapor Pressure (mm Hg): N.D.pH (Concentrate): 6 - 8Vapor Density (Air=1): Heavier than airpH (1% Solution): N.D.					
Benzalde	hyde odor VOC Content: < 13	3%	Evaporation Rate (Water=0.3): N.D.			ècific Grav	,	
			EXPLOSION HAZARD DATA					
	Method: None when heated to 100°C–Cle	veland Open Cup	Special Fire Fighting Procedures: F including self-contained bre					
Flammable Lim	its LEL: N.D. UEL: N.D.		containers with spray.	aunnya	apparat	us. 0001		-exposed
Extinguishing N	Nedia: Any agent suitable for surrounding fi	re.	Unusual Fire & Explosion Hazards: (. Irritating and
		SECTION 5 -	toxic gases or fumes may b REACTIVITY DATA	e releas	sed dur	ing a fire		
Chemical Stabi	lity: Stable: X Unstable:	SECTION 5-	Hazardous Polymerization: May O	ccur	W	ill Not O	ccur	x
	void: Keep away from heat and strong oxic	lizing agents.	Hazardous Decomposition or By-Pro					
	(Materials to Avoid): Strong oxidizing agents		hydrogen chloride vapors.					
tire), redl	ucing agents, anionic soaps and detergents		RD DATA/FIRST AID PROCED					
Health Hazards	(Acute and Chronic): Corrosive. Hazards to		Emergency and First Aid Procedures					
domestic	animals. Causes irreversible eye damage	and skin burns.	IF ON SKIN OR CLOTHING: Take	off cont				
	f swallowed or absorbed through the skin. skin, or on clothing.	Do not get into	before reuse. Rinse skin im minutes. Call a poison contr					
	ptoms of Exposure: May cause irritation or bu	Irn to the eyes,	IF IN EYES: Hold eye open and r					
skin, gas	trointestinal tract, and respiratory system. E	Exposures may	minutes. Remove contact le	nses, if	preser	nt, after t	he first	5 minutes, then
	tation and defatting of the skin, and may re nt injury to eyes including blindness. Mists		continue rinsing eye. Call a advice.	poison	control	center c	or docto	r for treatment
	e throat and respiratory tract. High vapor co		IF SWALLOWED: Call a poison co	ontrol c	enter o	r doctor t	for treat	ment advice.
	se central nervous system effects. Symptor		Have person sip a glass of y					-
	es, dizziness, and drowsiness. Ingestion ca estinal irritation, nausea, vomiting, and diar		unless told to do so by a po anything by mouth to an une				OCIOF. L	to not give
•	ions Aggravated by Exposure: No data availab		NOTE TO PHYSICIAN: Probabl				y contra	aindicate the use
• •	7: IARC Monographs? No data available	¥	of gastric lavage.					
NTP? Yes				-0				
Ventilation Pro	SECTION ovide adequate local exhaust (explosion pro		IVE AND CONTROL MEASUR Steps to be Taken if Material is Spille		leased [.]	Remove	ignition	sources Wear
	: Use impervious gloves (rubber or neopre		respirator. Small spills may	be mop	ped up	, flushed	l away v	with water or
	protective clothing. Wash hands thoroughly	with soap and	absorbed on some absorbe					0 1
	er handling. · Wear chemical goggles. Use face shield a	round splashing	be contained; the material the approved methods for haza			contain		a disposed of by
	btection: If exposure limits are exceeded or i		Waste Disposal: Comply with all I			federal	regulati	ions. Do not
	ced, NIOSH approved respiratory protection		reuse empty container. Wra	p and d	liscard	in trash	(or recy	cle).
	ntilation and other forms of engineering con rred means for controlling chemical exposu		Handling and Storage: Store in orig					
protection	n may be needed for non-routine or emerge	ency situations.	children. Do not store on sid	le. Avoi	d creas	sing or in	npacting	g of side walls.
	ons: Keep out of the reach of children. Was rinking, chewing gum, using tobacco or usin							
	ntain and emergency showers are recomm							
	SECTI	ON 8 – OTHER R	EGULATORY INFORMATION					
Toxicity: Acute Oral L Acute Derma Primary Skir	al LD ₅₀ : >2,000 mg/kg in male and female n							
Primary Eye								rev 12/17/13

eramine®

Disinfectant-Sanitizer-Deodorizer-Fungicide-Mildewstat-Virucide* with...

Organic Soil Tolerance for Hospitals, Nursing Homes, Hotels & Motels, Institutions, Industries, Schools, Restaurants, Food Handling & Process Areas, Federally-Inspected Meat & Poultry Plants. Bar and Kitchen Use.

Steramine® is an effective disinfectant, sanitizer and deodorizer with fungicidal, mildewstatic and virucidal* performance.

Use Steramine® to sanitize food-processing equipment, food utensils, dishes, silverware, and glasses in restaurants, taverns, hotels and institutions. Following the use of Steramine® as a sanitizer on previously cleaned hard food-contact surfaces, a potable water rinse Steramine® is not allowed.

In hospitals, use Steramine® for the general disinfection of floors, walls, countertops, bathing areas, lavatories, tables, chairs, garbage pails and other hard non-porous surfaces. Apply Steramine® with cloth, mop or mechanical spray device.

Be sure to follow label directions and dilute to the proper strength for the application. To be certain you are getting the right strength for the job, Stearns recommends checking the use solution with quaternary test strips.



ST-718, 4 fl. oz. pack

SANITIZER • DISINFECTANT • DEODORIZER								
Food Contact Sanitare (No. Rogal) AL 203 success and pairs (Takota galarine) (200 ppm) Staramine [®] is an effective food-contact surface sanitare eliminating (SR 99%) of the following backets in 0.0 seconds in 500 ppm hard water (catabilities as CaCOL) according to the AAAC Semicolities and Detergent Sanitary Action of Disrefectante stat. (Testing a performed per the AAAC eminotial and Detergent Sanitarian) on a separate loss, or or inherin hard to the enterther of the microgeneous with the Sanothanian and Detergent Sanitarian (Sanothanian and Sanothanian to the matter of the microgeneous with the Sanothanian and Academic Sanothanian (Sanothanian at 2005) matchanian to the sanitary of the SANOthanian and Academic Sanothanian (Sanothanian) and 2005) matchanian to the sanitary of the SANOthanian and Academic Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and Sanothanian (Sanothanian) at 2005 matchanian to the sanitary of the SANOthanian and the sanitary of the sanothanian at 2005 matchanian the testing at 2005 matchanian at 2005 matchanian at 2005 matchanian (Sanothanian) at 2005 matchanian								
days old, against both Escherich	hia coli and Staphyloc	3ermicidal and Deterg occus aureus. Accept	jent Sanitizers) able results mu	on 3 separate lots, one o st demonstrate a 99.999	f which must be 2 60 % reduction in the			
days old, against both Escherich	hia coli and Staphyloc	CARRIER POPULATION	able results mu	on 3 separate lots, one o st demonstrate a 99.999 30 SECOND KILL	f which must be 2 60 % reduction in the			
days old, against both Escherich number of test microorganisms	hia coli and Staphyloc within 30 seconds.)	CARRIER	able results mu	st demonstrate a 99.999	% reduction in the			
days old, against both Escherich number of test microorganisms	hia coli and Staphyloc within 30 seconds.)	CARRIER	able results mu	st demonstrate a 99.999	% reduction in the 60 SECOND KIL			
days old, against both Escherich number of test microorganisms	hia coli and Staphyloc within 30 seconds.)	CARRIER POPULATION	able results mu SAMPLE A	30 SECOND KILL 7.47 Log ₁₀	60 SECOND KIL			
days old, against both Escherich number of test microorganisms	hia coli and Staphyloc within 30 seconds.)	CARRIER POPULATION	Able results mu	30 SECOND KILL 7.47 Log ₁₀ 7.47 Log ₁₀	60 SECOND KIL 7.47 Log10 7.47 Log10			
days old, against both Escherich number of test microorganisms	hia coli and Staphyloc within 30 seconds.)	CARRIER POPULATION	SAMPLE A B C	30 SECOND KILL 7.47 Log ₁₀ 7.47 Log ₁₀ 7.47 Log ₁₀ 7.47 Log ₁₀	60 SECOND KIL 7.47 Log10 7.47 Log10 7.47 Log10			

Consult the Steramine® Efficacy Summary for performance data against specific pathogens.

ST-No.	Case UPC No. Mfg. No. 071206	Each UPC No. Mfg. No. 071206	Case Size	Case Weight	Cases/Pallet
ST-767	076700	N/A	100 x 0.75 fl. oz. packs	5.5 pounds	100
ST-722	007223	N/A	144 x 1 fl. oz. packs	12 pounds	75
ST-723	007230	N/A	72 x 2 fl. oz. packs	11 pounds	75
ST-718	007186	N/A	36 x 4 fl. oz. packs	11 pounds	75
ST-906	009067	109064	KIT (Contains 6 ST-718, 1 ST-9956, 1 ST-9959, and 1 ST-9961)	4 pounds	75
ST-1266	009470	003331	4 x 1 gallon	36 pounds	48
ST-2010	003850	N/A	5 gallon pail	47 pounds	36
ST-9956	099565	N/A	1 x 64 fl. oz. Stock Solution Bottle w/ pump	0.75 pounds	100
ST-9959	099594	N/A	12 x 32 fl. oz. empty spray bottles	3.0 pounds	40
ST-9961	099617	N/A	(1) 5-qt. Sanitizer/Disinfectant bucket	1.5 pounds	48

ACTIVE INGREDIENTS:

Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5%, C ₁₈ 5%)	
dimethyl benzyl ammonium chloride	5.0%
Alkyl (C ₁₂ 68%, C ₁₄ 32%)	
dimethyl ethylbenzyl ammonium chloride	5.0%
IERT INGREDIENTS:	<u>90.0%</u>
OTAL:	100.0%

TC

IN



EPA Reg. No. 10324-63-3640 EPA Est. No. 3640 WI-01

Chemical Characteristics

Abrasive	no
Appearance	
Biodegradable	yes
Corrosive (concentrate)	
EPA Registered	
Fragrance	
Non-Flammable	yes
pH (concentrate)	
Phosphate-free	
•	,



STEARNS PACKAGING CORPORATION

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