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aCIDIC PRODUCT — Do remo in the fleathers or chemicals as hazardous gases or heaf top brightnessed. Dilute only with water STORAGE AND DISCOSAL

STORAGE—COMBUSTIBLE— Noep Sway from open flames or sparks when disting of whether actions open. Store in a cool area to not contaminate water, flat or feed by storage or disposal.

DO NOT COMMITTHE WARK, WIND COOK OF SURGING OF CONSIDERAL PORTIES AND CONSIDERAL PORTIES AND CONSIDERAL PORTIES AND CONSIDERAL CONTINUES. IN PROCEEDINGS OF CONTINUES OF CONTI

CONTAINER DISPOSAL—"life suise (or equivalent). Then offer for recycling or reconditioning or juncture and dispose of in a saintary landfill, or incinedition if allowed, by state and local authorities, by burning, if build. "By out of smoke."

DIRECTIONS FOR USE

- ris a violation of federal law towards in roduct in a manner inconsiste
- A. Sanitizing dairy, beveragitate for dispersions equip-

- Sanktaing earry, beveragement to it processing equipment,
 Rinse equipment immediatelite use
 Wash with recommended Deservir, andone brand product
 Rinse with potable water
 Air dry Protect from dust artiflet.
 Sanktae remediately before see w. In Diversey Wyandorte Low Foaming loding
 Sanktaer, using Vy oz. in eachlightens of water (0.8 milker), providing 12.5 ppm
 litratable sodine
 Allows sodypen solution in distinction drawn from advances. After sanitzing solution to Chiletery draw from equipment prior to using it is CPA Ros No. contacting food.

DIRECTIONS FOR USE continued to right panel

DIVERSEY WYANDOTTE LOW FOAMING IODINE SANITIZER

For Industry Use Only

ACTIVE INGREDIENTS Polassium triodide (providing 1.75% titrafacle iodine) INERT INGREDIENTS

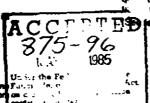
KEEP OUT OF REACH OF CHILDREN.

DANGER: CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SYMULOWED

STATEMENT OF PRACTICAL TREATMENT:

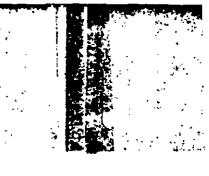
If IN EYES, Flush with plenty of water, Get medical attention. IF SMALLOWED: Drink promptly a large quantity of milk, egg whites, getatin solution, or, if these are not available, drink large qr. "files of water, Avoid alcohol, NOTE TO PHYSICIAN: Probable mucosal damage may consist of the use of gastric lavege.

T I Fig. (eft panel for additional precautions)



NET CONTENTS 30 GALLONS (113.55 LITERS)







DIRECTIONS FOR USE

- B. Sanitizing delay for
- Rinse equipment with ing and drain system Wash equipment with too. Rinse with cool Samitze and acid mit Wyandone Low Foam or soak at least 2 min patern muses. before reuse
- C. Terminal sanitizing
- Rinse with potable we Sanitize by immersion Non using 1/2 oz in 5 imers all ulensils for a
- D. Chemical contizing
- D. Chemical santizing.
 Prescrape, prefugit a.
 Wish with isconsisted.
 Santize—rinse glasse per 5 gallons (0.8 milni 30 seconds, For santity Foaming lodine Santi tirtalable iodine. Consultion or chemical feedermine tirtatable iodine.

 A. Air dry on clean surface.

MOTE Diversey Wyendots stater of over 120°F. (50°C) an iodine tester. When solidine and the color fader

Diversey Wyendotte Low F F Pasieurized Milk Ordina to 500 ppm hardness calcs and Detergent Sanituser O



Technical * Service Bulletin

FI/ICP 4-310

Diversey Wyandotte Low Foaming Iodine Sanitizer

EPA Registration Number 875-96

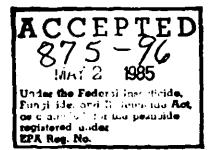
PURPOSE AND USE

Diversey Wyandotte Low Foaming Iodine Sanitizer is a rapid acting, low-foaming, liquid sanitizer. It is designed for sanitizing food and beverage equipment in dairies, dairy farms, food plants, breweries, restaurants and taverns.

It is especially recommended in CIP sanitizing where foam may be a problem

FEATURES	BENEFITS
l. Rapid action	Sanitizes in 30 seconds reducing sanitation time.
2. Colored solution	Yellow iodine color provides means of insuring active agent is present.
3. Hard water tolerance	Effective in water up to 30 grains hardness without increased usage.
4. Low corrosion	Will not damage 300 and 400 series stainless steel when used as directed.
5. Low-Foaming	Satisfactory for use in spray or CIP sanitizing applications.

EFFECTIVENESS



Diversey Wyandotte Low Poaming Iodine Sanitizer is recommended for reduction of bacterial contamination to low levels on hard surfaces at recommended use concentrations of 25 of 12.5 ppm titratable iodine. Table I compares the antimicrobial effectiveness of Low Foaming Iodine Sanitizer against sodium hypochlorite when tested against typical bacteria and yeast encountered in food processing plants. Test results indicate that a sanitizing level of 12.5 ppm titratable iodine kills a greater number of microorganisms than 100 ppm available chlorine from sodium hypochlorite.

Table_I

Comparison of Low Foaming Iodine Sanitizer with Sodium Hypochlorite by the A.O.A.C. AVAILABLE CHLORINE GERMICIDAL EQUIVALENT CONCENTRA-TION TEST - A.O.A.C. 12th Edition, 1975

Low	Foam:	ing Iodi	ine Sanitizer	Sod	ium Hypo	chlorite
•	ppm :	<u> Fitratal</u>	ole Iodine	ppm A	vail. Ch	lor(
Test Organisms	<u>25</u>	12.5	6.25	200	<u>100</u>	50
Paseudomonas aeruginosa (ATCC 15442)	10 10	7 6	3 2	8	4	2
Rhode torula ruba (BWC Y-7)	10 10	8 7	5 4	9	5	2
Sacchromycetes cerevisiae (BWC Y-2)	10 8	8 7	5 4	8	5	1
Salmonella typhosa (ATCC 6539)	10 10	9 6	4 5	7	3	1
Staphylococcus aureus (ATCC 6538)	10 10	8 6	4 2	7	5	3
Streptococcus lactis (ATCC 11454)	10	8	3	6	3	*

Numbers indicate the increments of test culture killed by the corresponding concentration of active agent.

Low Foaming Iodine Sanitizer is effective in soft or hard water up to 30 grains per gallon. Table II records the time required to reduce a standard bacterial inoculum by 99.999% under hard and soft water conditions.

A.O.A.C. Germicidal and Detergent Sanitizers Test Time (in seconds) to Obtain 99.999% Kill of Test Organisms with Low Foaming Iodine Sanitizer

	Di	stilled Wa	ter	Hard Water (500 ppm)							
;	ppm 1	itratable	Iodine	ppm T	itratable	Iodine					
•	<u>25</u>	12.5	6.25	<u>25</u>	12.5	6.25					
Escherichia coli (ATCC 11229)	30	30	30	30	30	30					
Staphylococcus aureus (ATCC 6538)	30	30	30	30	30	30					

CORROSION

Concentrated Low Foaming Iodine Sanitizer is non-corrosive to 302, 304 and 430 series stainless steel when used as directed. Consult Diversey Wyandotte Technical Service Department for recommended feeding equipment.

Diluted Low Foaming Iodine Sanitizer, like other iodine products, is not recommended for 3003 or 7075 aluminum, dairy tin, brass, chrome plate, or copper unless exposure time is short. Diluted Low Foaming Iodine Sanitizer will attack mild and galvanized stee. and is not recommended for routine use on these metals.

Diluted Low Foaming Iodine Sanitizer is acidic in use solution and may strip certain designs from glass surfaces. Check for stability of paint before use.

STAINING

Concentrated and diluted solutions of Low Foaming Iodine Sanitizer may discolor certain types of floor tile, plastic tubing and containers.

Check use before recommendation of Low Foaming Iodine Sanitizer. Stained surfaces will decolorize slowly if exposed to air.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

A. Sanitizing of Dairy, Beverage, Food Processing Equipment, Farm Bulk Tanks, Pipeline Milkers:

Page 4

• .*

- 1. Rinse equipment immediately after use.
- 2. Wash with recommended Diversey Wyandotte product.
- 3. Rinse with potable water.
- 4. Air dry. Protect from dust and dirt.
- 5. Sanitize immediately before reuse with Diversey Wyandotte Low Foaming Iodine Sanitizer, using 1/2 oz of Low Foaming Iodine Sanitizer in each 5 gallons of water (0.8 ml/liter) providing 12.5 ppm titratable iodine. Test periodically with iodine tester. When solution depreciates to 6.25 ppm, discard.
- B. Terminal Sanitizing of Glasses, Dishes and Food Preparation Surfaces
 - 1. Scrape and pre-flush articles to be washed.
 - 2. Wash with recommended Diversey Wyandotte brand product.
 - 3. Rinse with potable water.
 - 4. Sanitize by immersion in Diversey Wyandotte Low Foaming Iodine Sanitizer solutions using 1/2 oz to each 5 gallons of water (0.8 ml/liter) providing 12.5 ppm titratable iodine. Immerse all utensils for at least two minutes or for contact time specified by governing sanitary regulations. Test periodically with iodine tester. When solution depreciates to 6.25 ppm, discard.
- C. Chemical Sanitizing Cold Water Glasswashing Machines
 - Pre-scrape, pre-flush and load rack.
 - 2. Wash with Low Temperature Glasswashing Detergent or other approved detergent at 120°-140°F.
 - 3. Sanitize rinse glasses or tableware with 12.5 ppm titratable iodine from 1/2 oz per 5 gallons (0.8 ml/liter) Low Foaming Iodine Sanitizer for 30 seconds. Certain types of glasswashing equipment have a rinse cycle of less than 30_seconds. For sanitizing rinse of glasses use 1 oz of Diversey Wyandotte Low Foaming Iodine Sanitizer in 5 gallons of water (1.6 ml/liter) providing 25 ppm titratable iodine. Consult equipment manufacturer's specifications for rinse duration or chemical feeding rate. Collect a sanitizer-rinse water sample and determine titratable iodine content with Iodine Test Ki' daily.
 - 4. Air dry on clean surface.

NOTE: Diversey Wyandotte Low Foaming Iodine Sanitizer should not be used in rinse water of over 120°F.

Use Dilution	Fluid Ounces per 5 gal of Water		ppm Titratable Iodine
Sanitizing Cleaned Utensils	1/2	0.8	12.5
Sanitizing Cleaned Equipment	1/2	0.8	12.5
Mechanical Glasswashing			
30 second contact	1/2	0.8	12.5
less than 50 second contact	1	1.6	25
PHYSICAL PROPERTIES			
Diversey Wyandotte Low Foaming non-viscous liquid, having a s stable up to 120°F. When diss in color.	light character	istic ode	or. It is
CHEMICAL PROPERTIES			

i.

pH : 2.8 for 25 ppm tit. I ₂ () 5 gal soft water)	l oz in
Minimum titratable iodine 1.75%	
Specific Gravity, 25°C l.090	
Viscosity same as water	
Freezing Point6°F	
Flash Point TCC 83°F	

ACTIVE INGREDIENTS

Potassium triiodide										
(providing 1.75% titratable	iodine)	•	•	•	•	•	•	•	•	4.978

INERT	Ingredients	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	95.03%
TOTAL																		_	100.00%

TITRATABLE IODINE DETERMINATION

The yellow color of the solution denotes the presence of tittatable: iodine. The minimum titratable iodine detectable visually is about... 5 ppm. Presence of organic matter in solutions makes detection of ... the yellow color difficult and the visual technique is not recommended as a means of controlling the strength of such solutions.

The Diversey Wyandotte Iodine Test Kit should be used for determining the titratable iodine in use solutions.

TEST KIT PROCEDURE

- 1. Fill test bottle to 20 ml mark with solution to be tested.
- Add 3 spoonfuls of FI-Reagent A, cap, and invert sample three times. Available iodine in solution gives a brown-blue color.
- 3. Add FI-0-00 84 N Sodium Thiosulfate, drop by drop, until color changes from a pale blue to colorless.
- 4. Number of drops of FI-0.0084 N Sodium Thiosulfate x 2.1 = ppm titratable iodine.

Example:

A solution of Diversey Wyandotte Low Foaming Iodine Sanitizer is tested.

Drops of FI-0.0084 N Sodium Thiosulfate required for the color change is 12.

Factor for ppm titratable iodine is 2.1

12 drops x 2.1 = 25.2 ppm titratable iodine.

PRECAUTIONARY TEXT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

DANGER: CAUSES IRREVERSIBLE EYE DAMAGE HARMFUL IF SWALLOWED.

Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT:

If in eyes: Flush with plenty of water. Get medical attention.

If swallowed: Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ACIDIC PRODUCT - Do not mix with other cleaners or chemicals as hazardous gases or heat may be generated. Dilute only with water.

STORAGE AND DISPOSAL - Combustible. Keep away from open flames when diluting or when container is open. Store in a cool area. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixtures or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Haz rdous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by hurning. If burned, stay out of smoke.

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Page 5

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Minimum titratable iodine Specific Gravity, 25°C Viscosity	1.090 same as wa 6°F	water)	. I ₂ (1 oz in
Potassium triiodide (providing 1.75% titratable io	dine)	• • • •	. 4.97%
INERT INGREDIENTS			95.03%

TITRATABLE IODINE DETERMINATION

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STORAGE AND DISPOSAL - Combustible. Keep away from open flames when diluting or when container is open. Store in a cool area. Do not contaminate water, food or feed by storage or disposal.

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Precautionary Statements. HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

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DIRECTIONS FOR USE

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- A. Sanitizing dairy, beverage, and food processing equipment.
- 1. Rinse equipment immediately after use.
- 2. Wash with recommended Diversey Wyandotte brand product
- 3. Rinse with potable water.
- Air dry Protect from dust and dirt.
- 5. Samitize immediately before reuse with Diversey Wyandotte Low Foaming Todin Fungion 4e, ⊕ ∫ ∞ Sanitizer, using 1/2 oz in each 5 gallons of water (0.8 ml/liter), providing 12.5 ppm care acts 1 to 1.1 to 1.00 k titratable iostine.
- 6. Allow sanifizing solution to completely drain from equipment prior to using it is contacting food

DIRECTIONS FOR USE continued on right panel

DIVERSEY LOW FOAMING I

For Industry Use Only

ACTIVE INGREDIENTS

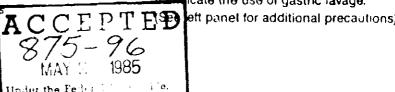
Potassium triiodide (providing 1 5% INERT INGREDIENTS

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