



Sani-T-10

DISINFECTANT • SANITIZER • ALGICIDE

PHENOL COEFFICIENT

Staphylococcus aureus 112
Salmonella typhosa 72

EPA Reg. No. 5741-13
EPA Est. No. 5741-OH-1

ACTIVE INGREDIENTS

n-alkyl (60% C₁₄, 30% C₁₆,
5% C₁₂, 5% C₁₈) dimethyl
benzyl ammonium chlorides . . . 5.0%
n-alkyl (68% C₁₂, 32% C₁₄)
dimethyl ethylbenzyl
ammonium chlorides 5.0%

INERT INGREDIENTS 90.0%

DANGER:

**KEEP OUT OF REACH
OF CHILDREN**

See back panel for additional
precautionary and first aid
statements.

SANITIZES IN WATER UP TO 750 PPM HARDNESS

Bactericidal • Fungicidal • Virucidal*
Algicidal • Deodorizer

FOR INSTITUTIONAL AND INDUSTRIAL USE ONLY
Spartan Chemical Co., Inc., 110 N. Westwood, Toledo, Ohio 43607

NET CONTENTS

U.S. GALLONS



Sani-T-10

DISINFECTANT

SANITIZER

ALGICIDE

Sani-T-10 is a truly versatile product. It makes an excellent disinfectant or sanitizer for use in hospitals, schools, bars, restaurants and institutions, and its algicidal activity makes it ideal for treating pools.

DIRECTIONS FOR USE:

Disinfection: To clean and disinfect hard environmental surfaces, use **Sani-T-10** at $\frac{3}{4}$ oz. per gallon, applying with a mop, cloth, sprayer or as a dip.

*When used as directed for disinfection, **Sani-T-10** is effective against the pathogenic bacteria *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Salmonella choleraesuis*, against pathogenic viruses *Vaccinia*, *Influenza, A₂* (London), *Herpes Simplex* and *Adenovirus Type 5*.

As a Fungicide: For fungicidal activity, use **Sani-T-10** at 2 oz. per gallon, applying with a mop, cloth, sprayer or as a dip.

When used as directed as a fungicide, **Sani-T-10** has been proven effective against the pathogenic fungi *Trichophyton interdigitale*.

As a Sanitizer: To sanitize food contact surfaces, first clean them, then apply **Sani-T-10** at $\frac{1}{4}$ oz. per gallon of water with a mop, cloth, sprayer or as a dip. A potable water rinse is not necessary unless so specified by state or local ordinance:

In the State of Wisconsin:

1. Scrape and prewash utensils and glasses whenever possible.
2. Wash with Spartan's Golden Glo Dishwashing Detergent or other compatible cleaner.
3. Rinse with clear water.
4. Sanitize in a solution of $\frac{1}{4}$ oz. **Sani-T-10** to 1 gal. water. (200 ppm). Immerse all utensils for at least two minutes or for time specified by governing sanitary code.
5. Place sanitized utensils on a rack in drain board to air dry.

Sani-T-10 was approved under the regulations of the Wisconsin State Division of Health.

As an Algicide: Initial Dose: 1 gallon **Sani-T-10** to 50,000 gallons of water.

Maintenance Dose: 1 quart **Sani-T-10** to 50,000 gallons of water.

Initial dose is used when filling pool at beginning of swimming season. If pool has visible algae growth, treat with initial dose. Vacuum pool after 24 hours to remove algae debris. If visible algae are still present, or re-appear, repeat this treatment procedure as necessary. When pool is free of visible algae, use the recommended maintenance dose.

Maintenance dose should be added at 3-5 day intervals. If high temperatures prevail or pool has unusually heavy use, add maintenance dose more frequently.

If make-up water is added at the rate of more than 10% per week of pool capacity, add 1 quart of **Sani-T-10** for each 10,000 gallons of fresh make-up water added per week.

When swimming season is over, add 1 gallon of **Sani-T-10** to 50,000 gallons of water in treating water left in pool. This dose helps provide a measure of control of algae growth during the winter months. This treatment will also help the servicing of the pool before it is returned to use the following season.

When **Sani-T-10** is used as directed, it will kill and prevent development of *Chlorella pyrenoidosa* (green), *Phormidium inundatum* (black algae), *Phormidium retzii* (Square D algae), *Lyngba versicolor* (blue-green) and other swimming pool algae.

Sani-T-10 is compatible with most commonly used swimming pool chemicals but should not be mixed with soap or other cleaners, or premixed with other water-treating chemicals. **Sani-T-10** works best when added by itself directly to pool water.

Sani-T-10 at use dilution is non-corrosive to inanimate surfaces.

Fish and/or Wildlife Precautions

This product is toxic to fish. Treatment effluent should not be discharged where it will drain into lakes, streams, ponds, or public waters. Apply this product only as specified on this label.

DANGER: Corrosive: Causes severe eye and skin damage. Do not get in eyes, skin or on clothing. Harmful or fatal if swallowed. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash all contaminated clothing before reuse. If swallowed, drink milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Rinse empty container thoroughly with water before discarding or returning drum to drum reconditioner.

Spartan Guarantee:

Spartan's modern manufacturing and laboratory control insure uniform quality. All products manufactured by Spartan Chemical Co., Inc., are unconditionally guaranteed for one year when used as directed. Any unused portion may be returned for credit.

SPARTAN CHEMICAL COMPANY INC., TOLEDO, OHIO 43607

SANI-T-10



Disinfectant/Sanitizer/Algicide

SANI-T-10 is a truly versatile product. It makes an excellent disinfectant or sanitizer for use in many areas including schools, hospitals, restaurants, bars and institutions. And, Sani-T-10's algicidal activity makes it ideal for use in treating pools.

SANI-T-10 has been shown by official test methods to be BACTERICIDAL, FUNGICIDAL and VIRUCIDAL*.

SANI-T-10 is a sanitizer for use on food contact surfaces at only 200 ppm (1/4 oz. per gallon).

SANI-T-10 sanitizes even in water up to 750 ppm hardness (44 grains), calculated as CaCO₃.

SANI-T-10 carries a "G" rating under the USDA Meat and Poultry Inspection Program meaning that it can be used as a sanitizer on all food contact surfaces without a potable water rinse.

SANI-T-10 was approved for use as a sanitizer in the state of Wisconsin under the regulations of the Wisconsin State Division of Health.

SANI-T-10 is a true deodorizer for it destroys both bacteria and the odor causing chemicals which they produce.

SANI-T-10 is an algicide. Official test methods show it to be effective against a number of swimming pool algae.

***Virucidal Activity:**

SANI-T-10 was tested by Doctor Morton Klein according to a standard virucidal test method. The results of his work are as follows:

Virus	Dilution of virus-germicide or virus-saline mixture	Control: Virus-saline	Test: Virus-germicide
Vaccinia virus	10 ¹	****	TTTT
	10 ²	****	0000
	10 ³	****	0000
	10 ⁴	****	0000
	10 ⁵	****	0000
	10 ⁶	****	0000
	10 ⁷	0000	0000
Influenza A ₂ (England)	10 ¹	*****	00000D
	10 ²	*****B	000000
	10 ³	*****	0000DD
	10 ⁴	*****	000000
	10 ⁵	*****	00000D
	10 ⁶	*****	000000
	10 ⁷	000000	000000
Herpes Simplex	10 ¹	****	TTTT
	10 ²	****	0000
	10 ³	****	0000
	10 ⁴	****	0000
	10 ⁵	****	0000
	10 ⁶	****	0000
	10 ⁷	0000	0000
Adenovirus Type 5	10 ¹	****	TTTT
	10 ²	****	****
	10 ³	****	0000
	10 ⁴	****	0000
	10 ⁵	****	0000
	10 ⁶	****	0000
	10 ⁷	0000	0000

- * —Virus present in each of cell culture tubes as indicated by the cytopathogenic effect.
 - D —Eggs dead from non specific factors
 - 0 —Virus absent
 - T —Toxicity due to germicide.
- Presence or absence of virus could not be determined.

Conclusion: SANI-T-10 is an effective virucide at 3/4 oz. per gallon against Vaccinia, Influenza A₂ (England), Herpes Simplex and Adenovirus Type 5.

Phenol Coefficient:

The phenol coefficients for SANI-T-10 were determined according to the Phenol Coefficient Method as outlined in the Manual of the AOAC. The results are as follows:

Organism	Phenol Coefficient	Organism	Phenol Coefficient
Staphylococcus aureus	112	Bacillus subtilis	28
Salmonella typhosa	72	Proteus mirabilis	18
Staphylococcus epidermidis	66	Pseudomonas fluorescens	35
Streptococcus faecalis	178		

Algicidal Activity:

The algicidal activity of SANI-T-10 was determined by standard methods against Chlorella pyrenoidosa and Phormidium inundatum. The results are as follows:

Concentration (ppm)	Per Cent Inhibition		Growth in Subculture	
	Test 1 (11 day)	Test 2 (7 day)	Test 1 (10 day)	Test 2 (60 day)
CHLORELLA PYRENOIDOSA				
0.125	0	0	Good	Good
0.25	100	90	Good	Good
0.5	100	100	Good	None
1.0	100	100	Good	None
1.5	100	100	None	None
PHORMIDIUM INNUNDATUM				
0.125	0	0	Good	Good
0.25	0	50	Good	Good
0.5	100	100	None	None
1.0	100	100	None	None

Conclusion: SANI-T-10 is an effective algicide at 0.5 ppm.

SANI-T-10 will not adversely affect conductive flooring when used as directed. Tests run on conductive flooring with SANI-T-10 in accordance with procedures outlined in the National Fire Protection Association Booklet No. 56 showed the following:

Initial Reading	3/4 oz. per gal.	2 oz. per gal.
After 1st wash with SANI-T-10	200,000 ohms	250,000 ohms
After 2nd wash with SANI-T-10	200,000 ohms	250,000 ohms
After 3rd wash with SANI-T-10	225,000 ohms	250,000 ohms
After 4th wash with SANI-T-10	250,000 ohms	250,000 ohms
After 5th wash with SANI-T-10	250,000 ohms	250,000 ohms
After 6th wash with SANI-T-10	250,000 ohms	300,000 ohms

DIRECTIONS FOR USE:

Disinfection:

To clean and disinfect hard environmental surfaces, use Sani-T-10 at ¾ oz. per gallon, applying with a mop, cloth, sprayer or as a dip.

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As a Fungicide

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When used as directed as a fungicide, Sani-T-10 has been proven effective against the pathogenic fungi *Trichophyton interdigitale*.

As a Sanitizer

To sanitize food contact surfaces, first clean them, then apply Sani-T-10 at ¼ oz. per gallon of water with a mop, cloth, sprayer or as a dip. A potable water rinse is not necessary unless so specified by state or local ordinance.

In the State of Wisconsin:

1. Scrape and prewash utensils and glasses whenever possible.
2. Wash with Spartan's Golden Glo Dishwashing Detergent or other compatible cleaner.
3. Rinse with clear water.
4. Sanitize in a solution of ¼ oz. Sani-T-10 to 1 gal. water. (200 ppm). Immerse all utensils for at least two minutes or for time specified by governing sanitary code.
5. Place sanitized utensils on a rack in drain board to air dry.

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Packaging:

SANI-T-10 is available in attractive lithographed 55, 30 and 15-gallon drums and 5-gallon pails. Also available in one gallon 4-packs.

Guarantee:

Spartan's modern manufacturing and laboratory control insure uniform quality. All products manufactured by Spartan Chemical Co., Inc., are unconditionally guaranteed for one year when used as directed. Any unused portion may be returned for credit.



Spartan Chemical Co., Inc.
110 N. Westwood Ave.
Toledo, Ohio 43607

Distributed by: