



**MATERIAL  
SAFETY DATA  
SHEET**

## VeriGuard Plus

DATE: 12/05/2007

SUPERSEDES: 09/14/2007

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** VeriGuard Plus  
**SYNONYMS:** Dodecylguanidine Hydrochloride HCL / Ortho Phenyl Phenol Blend  
**CHEMICAL FAMILY:** Amine Solution  
**MOLECULAR FORMULA:**  $C_{13}H_{20}N_3CL$  /  $C_{12}H_{10}OH$   
**MOLECULAR WEIGHT:** 253.5 / 170

VERICHEM, INC 3499 Grand Avenue, Pittsburgh, PA, USA, 15225 412-331-7299, 8:30 am to 5:00 pm

EMERGENCY PHONE: For any emergency involving spill, leak, fire, exposure, or accident call CHEMTREC:  
1-800-424-9300. Outside the USA and Canada call: 703-527-3887.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### REGULATED COMPONENTS

COMPONENT	CAS NUMBER	PERCENT	WORKER EXPOSURE	REFERENCE
Dodecylguanidine Hydrochloride HCL	13590-97-1	30%	None Established	OSHA/ACGHI
Ortho Phenyl Phenol	90-43-7	10%	None Established	OSHA/ACGHI

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**APPEARANCE AND ODOR:** Clear Liquid  
**EFFECTS OF OVEREXPOSURE:** Human: Causes irreversible eye damage and skin irritation. Do not get in eyes or on clothing. NaOPP has been shown to cause tumors in mice fed high doses. Environmental: Toxic to fish

### 4. FIRST AID MEASURES (IN CASE OF CONTACT)

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minute, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for treatment advice.

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment.**

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

<b>FLASH POINT:</b>	Not Flammable
<b>FLAMMABLE LIMITS (% BY VOLUME):</b>	Not Flammable
<b>AUTOIGNITION TEMPERATURE:</b>	Not Available
<b>DECOMPOSITION TEMPERATURE:</b>	Not Available

**EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTION:** In case of fire use water spray, alcohol foam, carbon dioxide, or dry chemicals. Exercise caution when fighting fires involving chemical substances. Respiratory protection is required. Burning will produce toxic fumes. Containers exposed to heat will result in pressure increase in containers. Cool hot containers with cool water.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. See Section 8 for PPE recommendations
- Dyke area to contain spill. Soak up pooled liquid with a suitable absorbent such as clay, sawdust, kitty litter, or fuller's earth. Sweep up the absorbent material and place into an appropriate chemical waste container for disposal. Generously cover contaminated area with slurry of common, powdered household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2 to 3 minutes then flush with water. Repeat if necessary.
- Do not discharge unless in accordance with Federal, State, and Local Regulations.

## 7. HANDLING AND STORAGE

**STORAGE REQUIREMENTS:** Keep container closed when not in use. Do not use or store near heat or open flame.

**HANDLING REQUIREMENTS:** Do not get in eyes, on skin or clothing. Wear goggles, face shield, or safety glasses and chemical resistant gloves when handling. Wash thoroughly with soap and water after handling and before eating, toileting, or smoking

## 8. PERSONAL PROTECTION

**EYE PROTECTION REQUIREMENTS:** Chemical splash goggles and face shields.

**SKIN PROTECTION REQUIREMENTS:** Chemical resistant gloves and protective clothing. Remove and wash clothing before reuse. Launder clothing separately from household articles. Replace gloves frequently. Any clothing which has been drenched or heavily contaminated and used gloves must be disposed of in accordance with state and local regulations.

**VENTILATION REQUIREMENTS:** Use local exhaust ventilation where dust or vapor may be generated.

**RESPIRATOR REQUIREMENTS:** For irritating vapors, use a NIOSH approved respirator in accordance with OSHA regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear yellow liquid light blue with glycol odor.
<b>BOILING POINT:</b>	226 <sup>o</sup> F / 108 <sup>o</sup> C
<b>MELTING POINT:</b>	Not Applicable
<b>VAPOR PRESSURE:</b>	Not Applicable
<b>SPECIFIC GRAVITY 25<sup>o</sup> C:</b>	1.03
<b>VAPOR DENSITY:</b>	Not Applicable
<b>PERCENT VOLATILE (BY WEIGHT):</b>	negligible
<b>pH:</b>	Apprx. 4.5 (1% w/w)
<b>SATURATION IN AIR (PERCENT BY VOLUME):</b>	Not Applicable
<b>EVAPORATION RATE:</b>	Similar to water
<b>SOLUBILITY IN WATER:</b>	Complete

## 10. STABILITY AND REACTIVITY

**STABILITY / THERMAL (CONDITIONS TO AVOID):** Stable

**POLYMERIZATION (CONDITIONS TO AVOID):** Not Applicable

**INCOMPATIBLE MATERIALS:** Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/ or toxic vapors. Contact with strong alkalis (e.g. ammonia and its solution, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites may generate heat, splattering or boiling and toxic vapors.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO<sub>2</sub>, HCL, NH<sub>3</sub>, CO, AND AMINES

## 11. TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS

<b>ORAL TOXICITY:</b>	LD <sub>50</sub> Rats – 2000 mg/kg
<b>DERMAL TOXICITY:</b>	LD <sub>50</sub> Rabbits - >2000 mg/kg
<b>INHALATION TOXICITY:</b>	LD <sub>50</sub> Rats, Female 4 hrs – >0.05 mg/l
<b>EYE IRRITATION:</b>	Rabbits - Corrosive
<b>SKIN IRRITATION:</b>	Rabbits – Corrosive
<b>SENSITIZATION:</b>	Guinea Pig – Not a sensitizer

## 12. ECOLOGICAL INFORMATION

<b>AQUATIC TOXICITY:</b>	Rainbow trout (96-hour LC <sub>50</sub> ) :	96 hours LC <sub>50</sub> -2.0 mg/l (DGH A. I.)
	Bluegill sunfish (96-hour LC <sub>50</sub> ) :	96 hours LC <sub>50</sub> -2.0 mg/l (DGH A. I.)
	Daphnia magna (96-hour LC <sub>50</sub> ):	48 hours LC <sub>50</sub> -0.088 mg/l (DGH A. I.)
<b>AVIAN TOXICITY:</b>	Mallard duck (dietary LC <sub>50</sub> ):	8 Day Feeding LC <sub>50</sub> -15, 000 ppm (DGH A. I.)
	Bobwhite quail (dietary LC <sub>50</sub> ):	8 Day Feeding LC <sub>50</sub> -15, 000 ppm (DGH A. I.)

## 13. DISPOSAL CONSIDERATION

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste cannot be disposed of use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the state and local authorities.

## 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	DOT Shipping Information	IMO Shipping Information	ICAO/IATA	TRANSPORT CANADA
Shipping Name	Corrosive Liquid, Acidic, Organic, N.O.S. (contains: Dodecylguanidine Hydrochloride)	-----	Corrosive Liquid, Acidic, Organic, N.O.S. (contains: Dodecylguanidine Hydrochloride)	Corrosive Liquid, Acidic, Organic, N.O.S. (contains: Dodecylguanidine Hydrochloride)
Hazard Class	8		8	8
Packing Group	III		III	III
Subsidiary Class				
UN/ID Number	3265		3265	3265
Transport Label Required	CORROSIVE		CORROSIVE	CORROSIVE
Packing Instructions Passenger Cargo			818 820	
Max. Net Quantity Passenger Cargo			5L 60L	
DOT Hazardous Substances	CORROSIVE		CORROSIVE	CORROSIVE

## 15. REGULATORY INFORMATION

### INVENTORY INFORMATION

US TSCA: The chemical substances in this product are on the TSCA 8(b) inventory (40CFR 710)  
CANADA DSL: N/A  
EEC EINECS: N/A

### OTHER ENVIRONMENTAL INFORMATION

The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR (Part 372) or subject to other EPA regulations.

COMPONENT: Dodecylguanidine Hydrochloride and Ortho Phenyl Phenol  
CAS. NUMBER: 13590-97-1 and 90-43-7  
PERCENT: 30% DGH and 10% OPP

### PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA:

ACUTE: Y  
CHRONIC: Y  
FIRE: N  
REACTIVE: N  
PRESSURE: N

## 16. OTHER INFORMATION

### NFPA HAZARD RATING (NATIONAL FIRE PROTECTION ASSOCIATION)

FIRE: 0  
HEALTH: 2  
REACTIVITY: 0

THE INFORMATION ON THIS DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION, AND INVESTIGATION, AND REPRESENTS OUR CURRENT DATA AND BEST OPINION AS TO THE PROPER USE OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THE PRODUCT WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET OR WHICH INVOLVES USING THE PRODUCT IN COMBINATION WITH ANY OTHER PRODUCT OR ANY OTHER PROCESS IS THE RESPONSIBILITY OF THE USER. THIS INFORMATION IS PROVIDED WITHOUT WARRANTIES, EITHER EXPRESSED, OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN.



For more information call: 1 800 778-5462 • FAX 1 412 331-7884  
Or write VERICHEM, 3499 Grand Avenue, Pittsburgh, Pennsylvania 15225

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