



VERICHEM

TECHNICAL DATA SHEETS

VERIGUARD 3003

EPA Registration No. 67869-45

DESCRIPTION	<p>Veriguard 3003 is a patented (US Patent Pending) solution of 10% 1,2-Dibromo-2,4-Dicyanobutane (DBDCB) and 2,2-Dibromo-3-nitrilopropionamide (DBNPA) in Propylene Glycol.</p> <p>VERIGUARD 3003 is used to control the growth of microorganisms in aqueous systems and in preservation applications.</p>		
STRUCTURE / FORMULA	<table><tr><td><p>Chemical Name: 1,2-DIBROMO-2,4-DICYANOBTANE Molecular Formula: C₆H₆ Br₂ N₂ Molecular Weight: 266 DBDCB CAS#: 35691-65-7</p></td><td><p>Chemical Name: 2,2-DIBROMO-3-NITRILOPROPIONAMIDE Molecular Formula: C₃H₂ Br₂N₂O Molecular Weight: 242 DBNPA CAS#: 10222-01-2</p></td></tr></table>	<p>Chemical Name: 1,2-DIBROMO-2,4-DICYANOBTANE Molecular Formula: C₆H₆ Br₂ N₂ Molecular Weight: 266 DBDCB CAS#: 35691-65-7</p>	<p>Chemical Name: 2,2-DIBROMO-3-NITRILOPROPIONAMIDE Molecular Formula: C₃H₂ Br₂N₂O Molecular Weight: 242 DBNPA CAS#: 10222-01-2</p>
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BENEFITS	<p>VeriGuard 3003 is a broad spectrum biocide that provides both quick-kill and long term protection against bacteria, yeast and molds over a broad pH range (4 – 9.5).</p>		
APPLICATION DATA	<p>To inhibit the growth of slime forming microorganisms in aqueous systems such as paper mills, industrial cooling water systems and air washer systems review the product label for use directions. Note: Add VeriGuard 3003 separately to the system. Do not mix it with other additives, in order to avoid decomposition of VeriGuard 3003 due to high pH of many additive formulants.</p> <p>Review the product label for recommended dose ranges to control microorganisms in preservation applications including; adhesives, glues and tackifier preservation; construction products and household products; metal working fluids containing water; enhanced oil recovery; paints coatings and stains; pigments, dyes and filler suspensions; polymer dispersions and emulsions.</p>		
TYPICAL PROPERTIES	<table><tr><td><p>APPEARANCE AND ODOR: BOILING POINT: MELTING POINT: VAPOR PRESSURE: SPECIFIC GRAVITY : VISCOSITY: PERCENT VOLATILE (BY WEIGHT): pH: SATURATION IN AIR (PERCENT BY VOLUME): EVAPORATION RATE: SOLUBILITY IN WATER:</p></td><td><p>Light green to orange viscous liquid with little to no odor N/A >50° C Not Applicable 1.24 @ 25° C 170 centistokes @ 20° C Unknown 3.73 @ 1% w/w Not Applicable Unknown Unknown</p></td></tr></table>	<p>APPEARANCE AND ODOR: BOILING POINT: MELTING POINT: VAPOR PRESSURE: SPECIFIC GRAVITY : VISCOSITY: PERCENT VOLATILE (BY WEIGHT): pH: SATURATION IN AIR (PERCENT BY VOLUME): EVAPORATION RATE: SOLUBILITY IN WATER:</p>	<p>Light green to orange viscous liquid with little to no odor N/A >50° C Not Applicable 1.24 @ 25° C 170 centistokes @ 20° C Unknown 3.73 @ 1% w/w Not Applicable Unknown Unknown</p>
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STORAGE AND DISPOSAL	<ul style="list-style-type: none"> • Do not contaminate water, food or feed by storage or disposal. Keep away from heat and open flame. Keep container closed. • Biocide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of 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. • To maintain product quality, store at temperatures below 50° C. Keep container tightly closed when not in use. • 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 authority.
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GOVERNMENT APPROVALS	<p>VERIGUARD 3003 is registered with the U. S. Environmental Protection Agency (EPA Reg. No. 67869-45) as an end-use product for the control of microorganisms in a wide range of commercial and industrial processes and material preservations.</p> <p>FDA approval under 21 CFR for individual active ingredients (Refer to the Code for applicable limitations).</p> <table> <tr> <td>DBDCB</td> <td>DBNPA</td> </tr> <tr> <td>175.105</td> <td>176.170</td> </tr> <tr> <td>176.300</td> <td>176.180</td> </tr> <tr> <td></td> <td>176.300</td> </tr> </table>	DBDCB	DBNPA	175.105	176.170	176.300	176.180		176.300
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PACKAGING	<p>5 Gallon Plastic Pail: 40 lb (D) 55 Gallon Plastic Drum: 465 lb (R) 275 Gallon Disposable Tote: 2200 lb (H)</p>
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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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