

REQUICIDE G

DESCRIPTION	Requicide G is available as a 30% and 15% active solution of Dodecylguanidine Hydrochloride (DGH) in Water. DGH is a non-oxidizing, liquid, nitrogen-based organic for use in aqueous industrial systems as a broad spectrum biocide, effective in controlling bacteria, yeast and fungi.
TYPICAL PROPERTIES	<p>Active Ingredient: Dodecylguanidine Hydrochloride</p> $\begin{array}{c} \text{NH} \\ \\ [\text{CH}_3 - (\text{CH}_2)_{11} - \text{NH} - \text{C} - \text{NH}_2] \cdot \text{HCl} \end{array}$ <p>Flash Point: 35°C (90°F)</p> <p>Freeze Point: 0°C (32°F)</p> <p>Specific Gravity: 0.96 ± 0.02</p> <p>Appearance: Clear*, light yellow solution</p> <p>Solubility @ 25°C : Readily dispersible and soluble at usage concentrations in water and lower alcohols.</p> <p>*In long-term storage, a slight turbidity sometimes forms. Studies have shown that this is not the active ingredient, and product performance is unaffected.</p>
ANTIMICROBIAL CATEGORY	Sanitizer, Bacteriostat, Microbiocide, Microbiostat, Fungicide, Algicide, Molluscicide
USE SITES:	Water cooling towers, sewage disposal lagoons, additive to preserve finished paper and paperboard products (including food contact surfaces), brewery pasteurizer water, industrial disposal water, air washer water systems, waste water systems, sewage effluent water, sewage systems, industrial processing water, non-potable water, adhesives, glues, coatings, oil recovery drilling mud, secondary oil recovery injection water, polymers, latex, resin emulsions, latex emulsions, paper-making chemicals, alum solutions, printing pastes, evaporate condenser water, heat exchange water, disposable diapers, and

	slurries.																		
SPECIFICATIONS	<table border="1"> <thead> <tr> <th>PARAMETERS</th> <th>REQUICIDE G (30%)</th> <th>REQUICIDE G (15%)</th> </tr> </thead> <tbody> <tr> <td>Form</td> <td>: Liquid</td> <td>Liquid</td> </tr> <tr> <td>Colour</td> <td>: Colourless to Pale yellow</td> <td>Colourless to Pale yellow</td> </tr> <tr> <td>Active Matter</td> <td>: 30 ± 2%</td> <td>15 ± 2%</td> </tr> <tr> <td>Sp. Gravity, 25°C</td> <td>: 0.97 ± 0.02</td> <td>0.97 ± 0.02</td> </tr> <tr> <td>pH (as supplied)</td> <td>: 3.0 – 6.0</td> <td>3.0 – 6.0</td> </tr> </tbody> </table>	PARAMETERS	REQUICIDE G (30%)	REQUICIDE G (15%)	Form	: Liquid	Liquid	Colour	: Colourless to Pale yellow	Colourless to Pale yellow	Active Matter	: 30 ± 2%	15 ± 2%	Sp. Gravity, 25°C	: 0.97 ± 0.02	0.97 ± 0.02	pH (as supplied)	: 3.0 – 6.0	3.0 – 6.0
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APPLICATIONS	<ul style="list-style-type: none"> ▪ It is recommended for recirculating waters, as a slug treatment at dosage rates of 20-60 ppm, applied at a frequency of one to three times per week, depending on the severity of the problem. In extreme conditions dosing with up to 100 ppm may be necessary. The surfactant characteristics of the active ingredient can aid in the loosening of slime deposits and in the penetration of chlorine and hypochlorite into microbial growths. ▪ It is used as an antimicrobial agent in paper and paperboard products at a level of 0.4 to 0.8% (of weight of paper), depending on the end use application. ▪ It is also used in polymeric emulsions and coatings as an antimicrobial agent in concentrations limited to 0.03% or more depending on type of application. ▪ In addition it is also used in adhesives, glues, chemicals for oil recovery drilling mud, diapers etc. as an agent to resist biodeterioration. 																		
APPLICATION BENEFITS	<ul style="list-style-type: none"> ▪ Effective over a broad pH range. ▪ Broad spectrum effectiveness against bacteria, yeast and fungi. ▪ Does not contain or release formaldehyde. ▪ Effective at low concentrations. 																		

	<ul style="list-style-type: none"> ▪ Compatible with many preservatives and mildewcides. ▪ Easy handling liquid formulation. ▪ Extremely effective for controlling sulfate reducing bacteria. ▪ Non-corrosive to metallurgy at use concentrations. ▪ Non-oxidizing: will not be consumed by reducing substances in water. ▪ Can be used in conjunction with other non-oxidizing biocides and in chlorine and hypochlorite treatments <p>METHOD OF ACTION</p> <p>DGH is a strongly cationic surface-active biocide, which acts as a broad-spectrum agent by disrupting the cell envelope of most microorganisms. In addition, it disrupts the conformation and activity of a variety of enzyme systems and it reacts with anionic groups of cellular membrane systems, thus interfering with permeability and transport mechanism.</p> <p>NOTE TO FORMULATORS</p> <p>Formulators should test the compatibility of DGH with other components of the system and determine the efficacy and stability of the formulated product.</p>
RATINGS	<p>Requicide G has German BGVV under Recommendation Number 14/36.</p> <p>HMIS Rating: * Health = 3</p> <p>Flammability = 1</p> <p>Reactivity = 0</p> <p>* Hazard Rating Scale: 0 = Minimal 1 = Slight</p> <p>2 = Moderate 3 = Serious</p> <p>4 = Severe</p>
STORAGE AND HANDLING	<p>Requicide G is stable. All chemicals should be stored in a manner to protect them from extremes of heat or cold, and are best if used within six months from the time of receipt. In laboratory studies the product has been found to</p>

	<p>be chemically stable under the following conditions: 2 years at 25°C</p> <p>In long term storage, a slight turbidity sometimes forms. Studies have proven this is not the active ingredient, and performance is unaffected.</p>
PRODUCT STORAGE AND DISPOSAL	<p>Do not contaminate water, food or feed by storage or disposal. Keep away from heat and open flame. Keep container closed.</p> <p>Biocide wastes are acutely hazardous. Improper disposal of excess biocide, spray mixture or rinsate is a violation of law. Contact your Hazardous Waste Representative at the nearest Regional Office for guidance and regulations on disposal.</p>

NOTICE

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instruction.

The information of 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 express or implied, and we assume no responsibility for the accuracy or completeness of the data contained herein.

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