

## Key Performance Advantages

- Excellent alternative to diglycolamine
- An efficient neutralizer
- Extends fluid life



**Metalworking Fluids**

# CORRGUARD<sup>®</sup>-95 AMINO ALCOHOL FOR METALWORKING FLUIDS

## Exceptional Performance Advantages Over Diglycolamine (DGA)

CORRGUARD<sup>®</sup>-95 Amino Alcohol is an excellent choice for replacement of DGA. Performance advantages include:

- Lower use level
- Better pH stability
- Greater microbial resistance
- Less foam

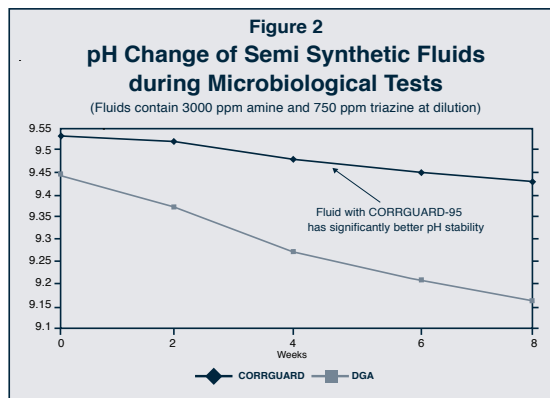
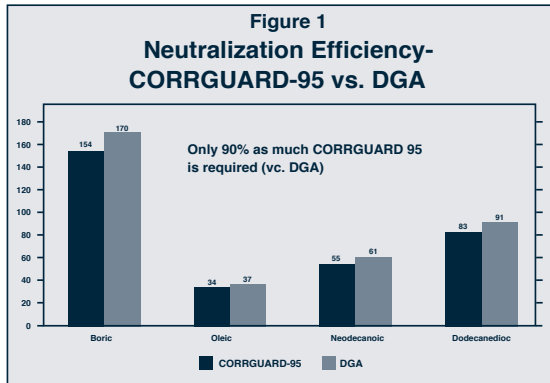
# Key Benefits

## A More Efficient Neutralizer/pH Adjuster at Lower Use Level

The following chart (Fig. 1) confirms the efficiency advantage of CORRGUARD-95 based on its lower equivalent weight (~95 as supplied) versus DGA (~105).

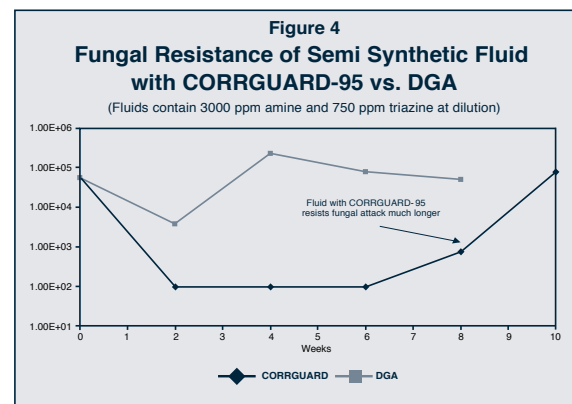
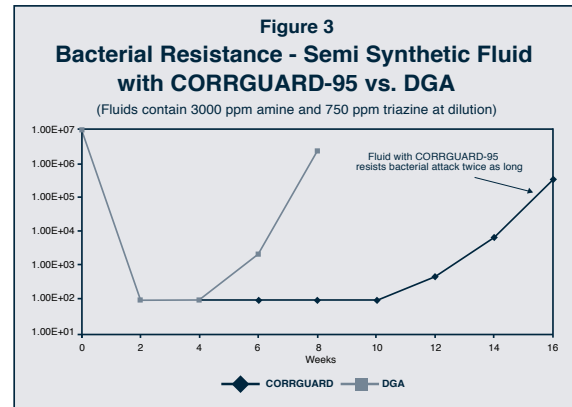
## Better pH Stability with Fewer Tankside pH Adjustments

CORRGUARD-95 provides superior pH stability since fluids with it resist microbial degradation better than those with DGA (Fig. 2). And CORRGUARD-95 is significantly less reactive with atmospheric carbon dioxide.



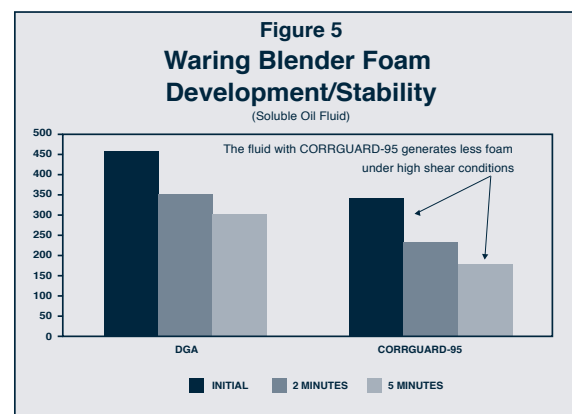
## Longer Fluid Life Through Improved Microbial Resistance

Properly preserved fluids with CORRGUARD-95 can last longer than those with DGA, resulting in less maintenance and the possibility of lower ownership cost (Figs. 3&4).



## Less Foam, Better Cooling and Lubrication

Fluids formulated with CORRGUARD-95 Amino Alcohol and fatty acids generate less foam under high shear conditions than similar fluids with DGA; this advantage may be obscured with fluids generating high levels of foam due to other surface active agents. Lower foam levels can mean better cooling and lubrication (Fig. 5).



## Other Performance Characteristics

Fluids containing CORRGUARD-95 provide similar cast iron corrosion control to those with DGA. CORRGUARD-95 leaches minimal cobalt and lead, as does DGA. Although CORRGUARD-95 leaches higher levels of copper than DGA, if this is a concern, addition of small amounts of tolyltriazole will reduce leaching to acceptable levels.

## Formulating Guidance

ANGUS can help you formulate fluids with CORRGUARD-95 Amino Alcohol and appropriate biocides to meet your cost and performance requirements. Please contact your local ANGUS representative for technical assistance.

## Product Stewardship

ANGUS encourages its customers to review their applications of ANGUS products from the standpoint of human health and environmental quality. To help ensure that ANGUS products are not used in ways for which they are not intended, ANGUS personnel will assist customers in dealing with environmental and product safety considerations. For assistance, product Safety Data Sheets, or other information, please contact your ANGUS representative at the numbers provided in this document. When considering the use of any ANGUS product in a particular application, review the latest Safety Data Sheet to ensure that the intended use is within the scope of approved uses and can be accomplished safely. Before handling any of the products, obtain available product safety information including the Safety Data Sheet(s) and take the necessary steps to ensure safety of use.

### Contact Information

[angus.com](http://angus.com)

**North America**  
+1 (847) 808-3887

**Latin America**  
+55 (11) 94245-5307

**Western Europe**  
+33 670654658

**Central and Eastern Europe**  
+33 670654658

**Middle East and Africa**  
+33 670654658

**Indian Subcontinent**  
+33 670654658

**Greater China**  
+65 8686 5712

**Japan and Korea**  
+65 8686 5712

**Southeast Asia and  
New Zealand**  
+65 8686 5712



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