

# CORRGUARD™ FS

## MULTIFUNCTIONAL AMINO ALCOHOL FOR IMPROVED ALUMINUM STAINING PERFORMANCE

Changing metallurgy trends are creating a greater need for metalworking formulations suitable in multi-metal applications. While rust is still a concern for metalworking equipment, issues like aluminum staining are more prevalent on the part being machined. Utilizing primary amino-alcohol chemistry, CORRGUARD™ FS helps fight staining, while providing efficient neutralization and pH stability. To permit ease of handling and formulation, this liquid maintains a relatively low viscosity and is 100% water soluble.

### TYPICAL PROPERTIES<sup>(a)</sup>

Calculated amine value (mg KOH/g).....	565
pH (1% aqueous) .....	10.8
pKa.....	9.7
Specific gravity at 25°C.....	0.96
Viscosity at 25°C.....	87mPa-s
Freezing point.....	<-32.0°C
Flash point (closed cup).....	>110°C
Solubility in water.....	100%

<sup>(a)</sup>Values shown are typical properties and are not to be considered product specifications. Test methods available upon request.

### PRODUCT BENEFITS

- Primary amino-alcohol chemistry
- 100% water soluble
- Efficient neutralization and pH stability
- Fights aluminum staining
- Broadly registered

### REGULATORY STATUS

See Safety Data Sheet (SDS)

### PACKAGING AND STORAGE

CORRGUARD FS is not classified as hazardous under the European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

CORRGUARD FS does not meet any of the defined criteria for “dangerous goods” contained in the International Transportation Regulations for Air (ICAO Technical Instructions) or for Ocean Transport (IMDG Code).

Shipping containers <sup>(b)</sup>	Net wt.	Gross wt.
Unlined steel drums	195 kg	213 kg
Intermediate bulk containers	950 kg	1003 kg

CORRGUARD FS is a combustible liquid with a relatively high flash point and a low vapor pressure at ordinary temperatures. These properties cause no problems with respect to storage and handling. Do not store near heat or flame.

CORRGUARD FS should not be exposed unnecessarily to the atmosphere, since it can pick up moisture and carbon dioxide due to its amine functionality. Evidence of this may be detected by a weight gain, a lower alkalinity equivalency than when first received, or the formation of cloudy solutions when dissolved in alcohol.

<sup>(b)</sup>The shipping containers listed meet UN 1A1 packaging specifications.

### CHEMICAL COMPOSITION

Chemical Name	CAS No.	EINECS No.	Concentration
2-Amino-2-methyl-1-propanol	124-68-5	204-709-8	≥52%
Water	7732-18-5	231-791-2	≤12%
2-Amino-1-butanol	96-20-8	202-488-2	≥20%

2-Methylamine-2-methyl-1-propanol	27646-80-6	608-121-6	≤7%
2-Amino-2-ethyl-1,3-propanediol	115-70-8	204-101-2	≤5%
2-Amino-2-methyl-1,3-propanediol	115-69-5	204-100-7	≤6%

## PRODUCT STEWARDSHIP

When considering the use of any ANGUS product in a particular application, review the latest Safety Data Sheet (SDS) 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.



DISCOVER A **BETTER WAY**™

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

®™Trademark of ANGUS Chemical Company

Notice: No freedom from infringement of any patent owned by ANGUS Chemical Company ("ANGUS") or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where ANGUS is represented. The claims made may not have been approved for use in all countries. ANGUS assumes no obligation or liability for the information in this document. References to "ANGUS" or the "Company" mean the ANGUS legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.