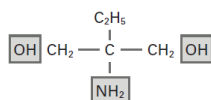


AEPD[®] VOX 1000

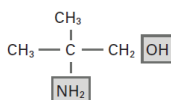
MULTIFUNCTIONAL AMINO ALCOHOL

AEPD[®] VOX 1000 neutralizing amino alcohol is a multifunctional additive for low-odor, low-VOC (volatile organic compound) interior water-based paints. With a very mild odor, high boiling point and low vapor pressure, AEPD VOX 1000 is an ideal formulating tool for paint producers that need to comply with EU Directive 2004/42/EC.

AEPD VOX 1000 neutralizing amino alcohol is a distinct ANGUS amino alcohol that is chemically and functionally similar to AMP[®] (2-amino-2-methyl-1-propanol), but has an additional hydroxyl group that allows for improved freeze / thaw resistance and lower volatility.



AEPD (2-Amino-2-Ethyl-1,3-Propane-Diol)



AMP (2-Amino-2-Methyl-1-Propanol)

Typical properties^(a)

Vapor pressure.....	0.002 mm Hg
Boiling Point.....	283°C
Product appearance.....	Pale yellow liquid
Molecular weight.....	119
pH.....	10.8 (0.1M solution @20°C)
pKa @20°C.....	8.8
Specific gravity.....	~1.05
Primary amine	
Diol functionality	

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

Product Benefits

- Enables formulation optimization
- Very low odor
- Improves pigment dispersion
- Ideal for complying with EU Directive 2004/42/EC for VOC
- Excellent safety profile
- Enhances open time and wet edge performance without affecting scrub resistance

Uses

Interior water-based paints

The multifunctional nature of AEPD VOX 1000 neutralizing amino alcohol allows for significant reduction in primary dispersant, defoamer, glycols and coalescing agents. This not only enables cost optimization but also helps enhance the dry film properties such as scrub and water spotting. These additives can also contribute to odor and VOC and, therefore, AEPD VOX 1000 neutralizing amino alcohol allows for further VOC level reduction.

Adding AEPD VOX 1000 neutralizing amino alcohol to the grind will adjust and control pH and can help reduce viscosity while improving pigment dispersion, resulting in lower primary dispersant levels. It will virtually eliminate amine or ammonia type odors.

Packaging and Storage

AEPD VOX 1000 neutralizing amino alcohol is not classified as hazardous under the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). AEPD VOX 1000 neutralizing amino alcohol 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 ^(b)	Net wt.	Gross wt.
Unlined steel drums	195 kg	213 kg
Intermediate bulk containers	950 kg	1003 kg

Store in original container and in a dry place. Keep container tightly closed when not in use. Do not store in: zinc, galvanized containers, aluminum, copper, or copper alloys. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

^(b)The shipping containers listed meet UN 1A1 packaging specifications. AEPD VOX 1000 is also shipped in bulk in tank cars or tank trucks.

Chemical Inventories

Chemical Name	CAS No.	Concentration
2-Amino-2-ethyl-1,3-propanediol	115-70-8	84.0%
Water	7732-18-5	14.0%
2-Amino-1-butanol	96-20-8	1.5%

Product Safety

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.

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