



ACTIV-8[®] AND ACTIV-8[®] HGL

Drier Stabilizer and Accelerator

TECHNICAL DATA

ACTIV-8 and **ACTIV-8 HGL** are drier accelerators and stabilizers when used with metal driers in waterborne and solvent-borne paints and coatings. **ACTIV-8** and **ACTIV-8 HGL** are solutions of the chelating agent 1,10-phenanthroline.

TYPICAL COMPOSITION

	ACTIV-8		ACTIV-8 HGL	
	by wt.	by vol.	by wt.	by vol.
1,10-phenanthroline	38%	28%	38%	31%
n-butanol	52%	61%	-	-
2-ethylhexoic acid	10%	11%	-	-
hexylene glycol	-	-	62%	69%

TYPICAL PROPERTIES

	ACTIV-8	ACTIV-8 HGL
Density at 25 °C (Mg/m³)	0.95	1.03
Weight/gallon (Lbs/gal)	7.89	8.59
Flash point, °F/°C	97/36	211/99
Volatile Organic Content	4.1 lbs/gal 492 g/L	5.3 lbs/gal 636 g/L

APPLICATIONS

ACTIV-8 and **ACTIV-8 HGL** are used in combination with manganese and/or cobalt driers in coatings that cure by oxidative polymerization to improve dry times. In general, **ACTIV-8** is used in solvent-borne coatings and **ACTIV-8 HGL** is used in waterborne coatings. Long term aging stability is also improved, especially in waterborne coatings where loss-of-dry often occurs.

DRIER RECOMMENDATIONS

- For waterborne coatings it is recommended to use 0.1-0.25% **ACTIV-8 HGL**, based on resin solids, in combinations with cobalt or manganese driers such that there is a 5 to 1 ratio of **ACTIV-8 HGL** to metal drier.
- For solvent-borne coatings it is recommended to use 0.2-0.5% **ACTIV-8**, based on resin solids, in combinations with cobalt or manganese driers such that there is a 10 to 1 ratio of **ACTIV-8** to metal drier.
- For the best overall combined performance of drying, long term loss-of-dry stability, and color, it is recommended that the driers and **ACTIV-8** be preblended in a suitable solvent. Preblending, in the absence of competitive substances, allows for the proper chelation of 1,10-phenanthroline with the drier metal.
- For a detailed explanation of how to determine the quantities of **ACTIV-8** or **ACTIV-8 HGL** to be used in a coating, as well as information on drier preblends, consult the ["How-to" Guide for the Use of ACTIV-8](#) on the Vanderbilt Minerals, LLC website.

STORAGE AND HANDLING

To maintain product quality, protect from freezing which can cause crystallization. If crystallization occurs, gently warm the product to dissolve the crystals.

ACTIV-8 and **ACTIV-8 HGL** will react with iron causing a reddish discoloration to white and light-colored paints. Care should be taken to insure **ACTIV-8** and **ACTIV-8 HGL**, do not come in contact with iron contaminants and are stored in lined metal containers.

Zinc in the form of zinc drier, zinc phosphate or zinc oxide blocks the activity of **ACTIV-8** and **ACTIV-8 HGL**. If **ACTIV-8** or **ACTIV-8 HGL** is to be used in a coating containing zinc, preblend **ACTIV-8** or **ACTIV-8 HGL** with the metal drier prior to exposure to zinc to allow for proper chelation.

CONTACT INFORMATION

For samples, product information and/or technical service please contact Vanderbilt Minerals, LLC or the Vanderbilt representative in your area:

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