

An Emerald Performance Materials Company

## OMICURE™ DDA 50

### Semi-Micronized Dicyandiamide

CAS NO. 461-58-5

### DESCRIPTION

**OMICURE DDA 50** is a semi-micronized grade of Dicyandiamide, a solid latent curing agent for epoxy resins. It has a mean particle size of approximately 20 $\mu$  and is one of several grades of Dicyandiamide offered by CVC that differ on particle size. **OMICURE DDA 50** contains approximately 2% silica as an anti-caking aid.

**OMICURE DDA 50**, like other grades of Dicy, is dispersed into a resin system where it remains stable until activated by heat. Without an accelerator, such as a substituted urea, dicyandiamide has an activation temperature of about 350°F and a formulated storage stability of over six months. When catalyzed with a latent accelerator, like one of the **OMICURE U** series of substituted ureas, one component adhesive and sealant formulas can be prepared with cure temperatures of 225-250°F and provide excellent stability. **OMICURE DDA 50** will help provide cost effective, stable, elevated temperature cured adhesives, composites, coatings, and other formulated systems.

Epoxy systems cured with **OMICURE DDA 50** are characterized by outstanding adhesion making it a preferred choice for cost-effective adhesive formulations. It is compatible with all epoxy resins, including Bisphenol A and F epoxies and epoxy novolacs, can be used with diluted or undiluted resins, and is compatible with a wide variety of fillers and pigments. **OMICURE DDA 50** is safe to handle and is considered non-toxic.

### APPLICATIONS

- One Component Adhesives
- Epoxy Powder Coatings
- Prepregs and Film Adhesives
- Electronic Potting and Encapsulating Compounds

### TYPICAL PROPERTIES

Appearance	White crystalline powder
Onset Melting Point(°C)	207-212
Melamine Content, max %	1.5
Moisture Content (loss @ 105°C) max %	0.50
Particle Size (<44 $\mu$ )	75%

### HEALTH & SAFETY PRECAUTIONS

**OMICURE DDA 50** is not flammable, corrosive or explosive. Dicyandiamide will decompose slowly above 80°C in water to generate ammonia, so material should be kept dry and away from steam pipes or excessively hot areas. While **OMICURE DDA 50** is not a primary skin or eye irritant, epoxy resins in which it is used can produce irritation. Removal with soap and water is sufficient. Avoid using solvents as these can dry the skin and increase the irritation potential of epoxy resins. Refer to **CVC Thermoset Specialties Material Safety Data Sheet** on **OMICURE DDA 50** for additional safety and health information. The MSDS is revised as new data becomes available.

### PACKAGING & AVAILABILITY

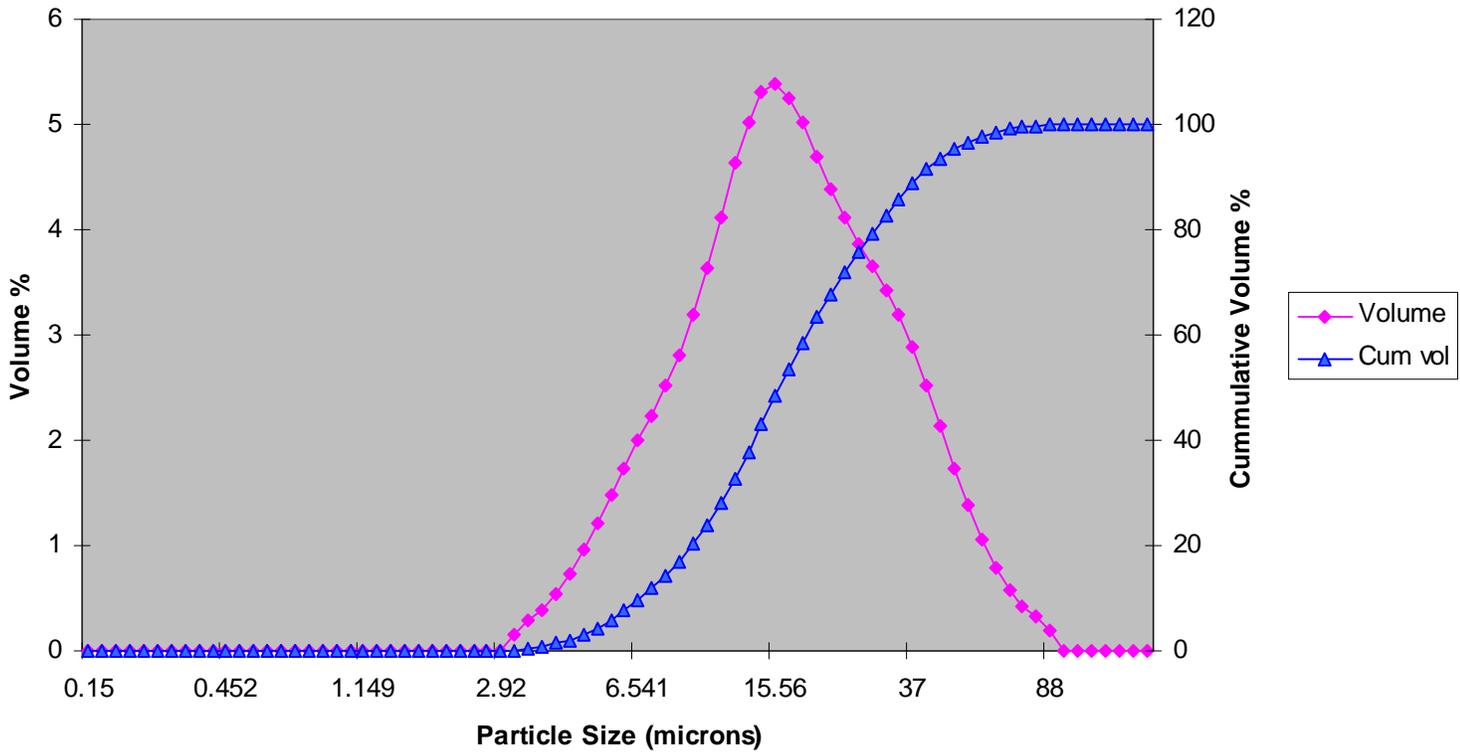
**OMICURE DDA 50** is available in anti-static liner bags inside corrugated boxes (net weight 45 lbs.) and 5 gal. plastic pails.

Typical particle size distributions is as follows:

%	Particle Size
10%	< 3 $\mu$
50%	< 20 $\mu$
90%	< 50 $\mu$
Mean Particle Size = 21 $\mu$	

See typical particle size distribution on page 2.

DDA 50 Particle Size Distributions



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