

OMICURE™ DDA 10
Micronized Dicyandiamide
CAS NO. 461-58-5

DESCRIPTION

OMICURE DDA 10 is a micronized grade of Dicyandiamide, a solid latent curing agent for epoxy resins. It has a mean particle size of approximately 12 μ and is one of several grades of Dicyandiamide offered by CVC that differ on particle size. **OMICURE DDA 10** contains approximately 2% silica as an anti-caking aid.

OMICURE DDA 10, 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 excellent stability. The fine particle size of **OMICURE DDA 10** will help aid good dispersion, prevent settling, and promote uniform cure to formulated systems without worry of 'hot spots'.

Epoxy systems cured with **OMICURE DDA 10** are characterized by outstanding adhesion making it a preferred choice for adhesive formulations. **OMICURE DDA 10** 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 10** 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 %	0.7
Particle Size %<11 μ	50%
Particle Size %<30 μ	90%

HEALTH & SAFETY PRECAUTIONS

OMICURE DDA 10 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 10** 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 10** for additional safety and health information. The MSDS is revised as new data becomes available.

PACKAGING & AVAILABILITY

OMICURE DDA 10 is available in plastic lined corrugated cardboard boxes (net weight 45 lbs.) and 5 gallon open head plastic pails.

DISCLAIMER

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained there from. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions, and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. CVC Thermoset Specialties shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond CVC's direct control. THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

CVC Thermoset Specialties—844 N. Lenola Road/Moorestown, NJ 08057
An Emerald Performance Materials Company

© Copyright 2006 Emerald Performance Materials LLC. 6/2006

CVC Thermoset Specialties

844 North Lenola Road / Moorestown, NJ 08057 / Phone: 856-533-3000 / Fax: 856-533-3003 / www.emeraldmaterials.com