



## IsoQure<sup>®</sup> UR 200

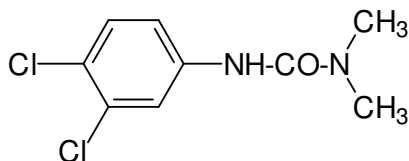
(Accelerator for Epoxy Resin Curing)

IsoQure<sup>®</sup> UR 200 is a blocked accelerator for the epoxy-dicyandiamide reaction allowing for a long shelf life. Following thermal activation, it provides with fast curing and high cross-linking density.

### Chemical Name

Chemical name	3-(3,4-Dichlorophenyl)-1,1-dimethylurea
CAS register number	330-54-1
EINECS	206-354-4
TSCA	listed

### Structural Formula



**C<sub>9</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>O**

### Typical Properties

Form	Off-white to tan powder
Melting point, initial	153 - 159 °C
Purity	min. 97 %
Molecular weight	233, 10
Particle Size < 13 µm	min. 90 %
Volatile Matters	max. 1 %

## Application

Dicyandiamide hardeners offer excellent mechanical and electrical properties, good processing, and a long shelf life of finished epoxy resin formulations. However, the necessary curing temperatures of ~ 200 °C are too high for most applications.

IsoQure<sup>®</sup> UR 200 is a blocked accelerator which reduces the necessary curing temperature significantly (above 130 °C, short cure cycles are achieved) and does not sacrifice the shelf life of the compound.

Applications extend from laminates for electrical circuit boards to powder coatings, from structural adhesives to high- tech carbon fibre composites.

## Function

IsoQure<sup>®</sup> UR 200 decomposes under heat to form isocyanates and catalytically active dimethyl-amine. The dimethylamine accelerates the curing of the epoxy and the isocyanates react with epoxies to form additional linkages via oxazolidinones.

## Handling and Storage, Packaging

The processing and use of IsoQure<sup>®</sup> UR 200 requires adequate technical and professional knowledge. Please consult safety data sheet and observe local safety regulations.

The legal requirements prevailing in your country, especially in the avoidance of accidents, working hygiene and patent rights must be observed.

IsoQure<sup>®</sup> UR 200 has to be stored in tightly sealed original containers in a cool and dry place below 28 °C. Properly stored it is stable for a minimum of two years.

Standard pack size of IsoQure<sup>®</sup> UR 200 is 25 kg in a bag; 500 kg on a pallet.

Revision 5  
March 2005

The above information is based on our experience to date and is intended for your advice. It does not constitute a guarantee for individual applications because the application and handling in each case lie beyond our control. If damage or injury occurs as a result of an application for which we are proven liable, or maximum liability will be limited to the value of the products supplied by us and used by you. Claims for compensation based on the provisions of the Product Liability Law are not affected by the liability exclusion insofar as they are based solely on this law and are made by third parties.

Isochem Kautschuk-GmbH  
Stiftstraße 2, 60313 Frankfurt am Main, Germany  
Phone +49 69 2980 1830, Fax +49 69 2980 1832  
Internet: [www.kautschuk.com](http://www.kautschuk.com), e-mail [info@kautschuk.com](mailto:info@kautschuk.com)