

## TECHNICAL DATASHEET

<b>Chemical Name:</b>	4,4'-methylene-bis-(ortho-chloroaniline)
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	267.16
<b>CAS No.:</b>	101-14-4

### Application

- ) Curing agent for polyurethane elastomers and cast polyurethanes.
- ) Curing agent for epoxy or epoxy urethane resin.

### Product Specification

<b>Moisture (%)</b>	< 0.30
<b>Melting range (°C)</b>	98 – 105
<b>Appearance</b>	Pale yellow pellet

### Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

		MOCA
<b>Bulk Density at 24°C</b>	(g/cm <sup>3</sup> )	0.8 – 0.9
<b>Liquid Density at 107°C</b>	(g/mL)	1.26
<b>Amine Value</b>	(mmol/g)	7.4 – 7.6
<b>Free Aniline</b>	(%)	< 1.00
<b>Color</b>	(Gardner)	< 4
<b>Acetone Insoluble Matter</b>	(%)	< 0.04
<b>Storage stability</b>	(%)	Stable, decomposes above 200°C

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

## Solubility

- ) Very soluble in Acetone, DMF, DMSO, MEK and THF.
- ) Soluble in Ethanol, Toluene and Benzene.
- ) Insoluble in water.

## Formulations

- ) **MOCA** is usually used to cure prepolymers that are produced from TDI reacted with polyether or polyester polyol.
- ) **MOCA** will show a significant reduction in properties if heated for long periods of time at temperature in excess of 121°C.

## Toxicity

- ) LD50 (Rats) 5000 mg/kg.
- ) **OSHA PEL 0.02ppm (8-hour TWA), ACGIH TLV 0.01ppm.**
- ) **MOCA** has been classified as a carcinogen since 1973, based upon test results with laboratory animals. In 1992, ACGIH, after reviewing existing information, continued the classification of MBOCA as a "Suspect Human Carcinogen".

## Storage and Packaging

- ) **MOCA** should be stored in a dry location.
- ) Net 50kg carton drum with polyethylene liner.

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