

Technical Data Sheet

MOCA

Chemical Name: 4,4'-methylene-bis-(ortho-chloroaniline) (MOCA)

Molecular Formula: C₁₃H₁₂Cl₂N₂

Molecular Weight: 267.16

CAS No.: 101-14-4

SPECIFICATIONS

Appearance	Pale yellow granular pellet
Melting range °C	98 -- 105
Moisture %	< 0.30

PHYSICAL PROPERTIES

Bulk density (24°C) / g/cm ³	1.44
Liquid density (107°C) / g/ml	1.26
Amine value / mmol/g	7.4 - 7.6
Free Aniline %	< 1.00
Color (Gardner)	< 4
Acetone insoluble matter %	< 0.04
Water absorption tendency	None
Storage stability	Stable, decomposes above 200° C

SOLUBILITY

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

APPLICATIONS

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

FORMULATIONS

- MOCA-HR is usually used to cure prepolymers that are produced from TDI reacted with polyether or polyester polyol. The prepolymer normally contains NCO of 4.2 - 4.3 %. Pot life is usually 8 - 10 minutes.
- MOCA-HR will show a significant reduction in properties if heated for long periods of time at temperatures in excess of 121° C.

TOXICITY

- LD50 (Rats) 5000mg/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

- MOCA-HR should be stored in a dry location.

PACKAGING

- Net 50-kg carton drum with polyethylene liner.

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