

Menthane Diamine

SPECIALTY AMINE CURATIVE

Chemical Names: 1,8-Diamino-p-menthane

Molecular Formula: C₁₀H₂₂N₂

CAS Registry #: 80-52-4

Menthane Diamine is a primary alicyclic diamine with its amine functional groups each attached to tertiary carbons. It is a slow reacting curative with a low viscosity and other unique properties. Alone or in combination with other curatives it provides low reaction exotherms, long work-lives, light color and improves yellowing resistance. Menthane Diamine reacts with many epoxy resins to produce hard, soluble "B-staged" polymers at room temperature and can be processed and handled in the B-staged condition and subsequently cured with heat.

In addition to the pure Menthane Diamine, we can provide custom blends of this curative with other curing agents, accelerators, pigments, solvents, and mineral of other fillers are available by request. Please contact us to discuss your needs if you think a custom blend or might be helpful for your application.

BENEFITS

- Low viscosity
- Low Exotherm – allows for casting large masses
- B-stages at room temperature
- Light color & good yellowing resistance
- Long work-life

TYPICAL PROPERTIES	VALUE	TEST METHOD
<u>Menthane Diamine</u>		
Visual Appearance	Clear, light yellow liquid	
Density	0.91 g/cm ³	ASTM E-201
Viscosity, @ 25°C	19 cP	ASTM D-2393
Flash Point	102°C (216°F)	ASTM D-92
Shelf-life	at least 1 year @ room temperature (~ 25°C)	
Cure Schedules:	achieve handling strength in 2-4 hours at 25°C.	
Minimum suggested cure times are: 6 hours @ 25C or 30 minutes at 60°C or 10 minutes at 100°C*		
Many other cure schedules are possible. Please contact us for assistance if you'd like to use an alternate cure schedule.		

STORAGE GUIDELINES

Store this material in a clean, cool and dry environment in its tightly closed original container. Menthane Diamine is not expected to be corrosive to uncoated or stainless steel, epoxy/phenolic coatings, or aluminum. However, it will corrode copper and copper alloys. Protect from exposure to humidity and carbon dioxide by keeping the containers tightly sealed

Product Datasheet



when not in use. Prior to re-sealing the containers, blanket the contents with dry inert gas, such as nitrogen to exclude moisture and carbon dioxide.

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE

Menthane Diamine

DANGER! CORROSIVE May cause severe eye & skin burns. Irritating to the respiratory system. Harmful if inhaled or swallowed. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER

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