

Technical Bulletin

JEFFAMINE[®] M-1000 Polyetheramine

JEFFAMINE M-1000 Polyetheramine is relatively hydrophilic based on copolymer of EO/PO backbone. JEFFAMIN M-1000 Polyetheramine is a monofunctional with primary amine. It is a white waxy solid at room temperature.

APPLICATIONS

- Ore flotation agent
- Corrosion inhibitor
- Agricultural emulsifier
- Emulsification of epoxy resins

BENEFITS

- Amine group more reactive than alcohol
- Water solubility useful in many applications
- Flexibility from polyether segment

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance, 60°C	Colorless to pale yellow liquid with slight haze permitted	ST-30.1
Color, Pt-Co	75 max.	ST-30.12
Primary amine, % of total amine	90 min.	ST-5.34
Total acetylatables, meq/g	0.95 – 1.15	ST-31.39
Total amine, meq/g	0.94 min.	ST-5.35
Water, wt%	0.25 max.	ST-31.53, 6

*Methods of Test are available from Huntsman Corporation upon request.

ADDITIONAL INFORMATION

Regulatory Information

See SDS for all regulatory information.

Typical Properties

AHEW (Amine hydrogen equivalent wt.), g/eq	489
Flash point, PMCC, °C (°F)	250 (482)
Density, g/ml, 38°C (100°F)	1.066
Density, lb/US gallon, 38°C (100°F)	8.90
Melting point, °C (°F)	29 (85)

TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

HANDLING AND STORAGE

Materials of Construction

At temperatures of 75-100°F (24-38°C)

Tanks	Carbon steel
Lines, valves	Carbon steel
Pumps	Carbon steel
Heat exchange Surfaces	Stainless steel
Hoses	Stainless steel, polyethylene, polypropylene, and TEFLON® fluoropolymers
Gaskets, packing	Polypropylene or TEFLON® fluoropolymers (elastomers such as neoprene, Buna N, and VITON® elastomer should be avoided)
Atmosphere	Nitrogen or dry air

At temperatures above 100°F (38°C)

Tanks	Stainless steel or aluminum
Lines, Valves	Stainless steel
Pumps	Stainless steel or Carpenter 20 equivalent
Atmosphere	Nitrogen

JEFFAMINE® M-1000 polyetheramine may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleanout of lines and equipment containing JEFFAMINE® M-1000 polyetheramine can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.

AVAILABILITY

JEFFAMINE® M-1000 amine is available in bulk and in drums of 450 pounds (204 kilograms) net weight.

Small samples can be obtained by contacting any Huntsman Performance Products sales office.

Technical Data Sheets are updated frequently. Please ensure that you have a current copy.

ATC0080-0518

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