

Technical Bulletin

JEFFAMINE[®] SD-2001 Polyetheramine

JEFFAMINE SD-2001 polyetheramine is useful in coatings and polymer applications. It is a liquid difunctional amine, with each amine being secondary. The secondary amine groups provide for a much slower reaction compared to primary amine groups. The product is TSCA Listed for sale in the U.S. and may be immediately available in other countries due to various polymer exemptions.

APPLICATIONS

- Chain extender for polyureas and polyurethanes
- Isocyanate prepolymer formation

BENEFITS

- Low color and viscosity
- Slower reacting than primary amines
- Gives lower viscosity isocyanate prepolymers

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear and substantially free of suspended matter	ST-30.1
Color, Pt-Co	110 max.	ST-30.12
Primary amine, %	5 max.	ST-5.34
Total amine, meq/g	0.875 – 1.03	ST-5.22
Water, wt%	0.20 max.	ST-31.53, 6

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

ADDITIONAL INFORMATION

Regulatory Information

DOT/TDG Classification	Amines, liquid, corrosive, n.o.s. (N,N'-bis(2-propyl)polyoxypropylenediamine)
HMIS Code	3-1-0
CAS Number	81455-53-0, 9046-10-0
TSCA Inventory	Listed
WHMIS Classification	E
Canadian DSL	Not Listed
EINECS/ELINCS Classification	Polymer Exempt
Australia, AICS	Not Listed
Japan, ENCS	Contact Huntsman Regulatory
China, IECSC	Not Listed

Physical Properties

AHEW (Amine hydrogen equivalent wt.), g/eq	1025
Equivalent wt. with isocyanates, g/eq	1025
Flash point, PMCC, °C (°F)	149 (300)
Boiling point, °C (°F)	>250 (>482)
Density, g/ml (lb/gal), 25°C	0.978 (8.15)
Viscosity, cSt, 25°C (77°F)	209
pH	11.8

TOXICITY AND SAFETY

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

HANDLING AND STORAGE

Materials of Construction

At temperatures of 75-100°F (34-38°C)

Tanks	Carbon steel
Lines, valves	Carbon steel
Pumps	Carbon steel
Heat exchange Surfaces	Stainless steel
Hoses	Stainless steel, polyethylene, polypropylene, and TEFLON ^{®1}
Gaskets, packing	Polypropylene or TEFLON ^{®1} (elastomers such as neoprene, Buna N, and VITON ^{®1} 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

¹VITON[®] and TEFLON[®] are registered trademarks of Dupont.

JEFFAMINE[®] SD-2001 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 SD-2001 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

Samples are available in North America and Asia by contacting our sample department at 1-800-662-0924. Samples in other locations, including Europe, are available by contacting any Huntsman Corporation sales office.

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