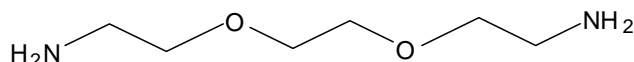


Technical Bulletin**JEFFAMINE[®] EDR-148 Polyetheramine**

JEFFAMINE EDR-148 polyetheramine is a symmetrical, unhindered diamine. Like other JEFFAMINE polyetheramines, it imparts flexibility and toughness to thermoset polymers. However, JEFFAMINE EDR-148 polyetheramine is unique in that it is much more reactive than the JEFFAMINE D, T, and ED series amines.



- APPLICATIONS**
- Epoxy curing agent
 - Monomer for polyamides
- BENEFITS**
- Can be formulated to cure at room temperature
 - Rapid cure at elevated temperatures
 - Excellent thermal shock resistance in cured epoxies

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Colorless to pale yellow liquid with slight haze permitted	ST-30.1
Color, Pt-Co	50 max.	ST-30.12
TEGDA, area% (Triethyleneglycol diamine)	97 min.	ST-35.143
Total amine, meq/g	12.7 min.	ST-5.35
Water, wt%	0.35 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. (Triethylene glycol diamine)
HMIS Code	3-1-0
CAS Number	929-59-9
US, TSCA	Listed
Canadian WHMIS Classification	D2B, E
Canada, DSL	Not Listed
European Union, EINECS/ELINCS	Listed
Australia, AICS	Listed
Japan, ENCS	Contact Huntsman Regulatory
Korea, ECL	Listed
China, IECSC	Not Listed

Typical Physical Properties

AHEW (Amine hydrogen equivalent wt.), g/eq	37
Viscosity, cSt, 25°C (77°F)	8
Density, g/ml (lb/gal), 25°C	0.998 (8.32)
Flash point, PMCC, °C (°F)	129 (265)
pH	11.6

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

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

JEFFAMINE[®] EDR-148 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 EDR-148 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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