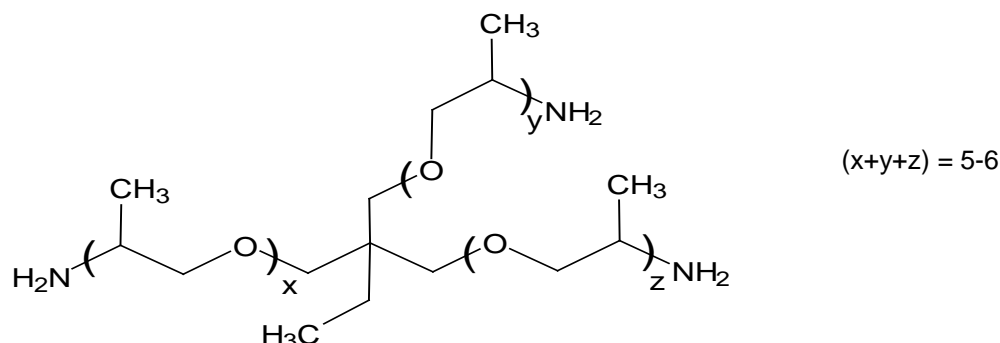


**Technical Bulletin****JEFFAMINE® T-403 Polyetheramine**

**JEFFAMINE® T-403** polyetheramine is characterized by repeating oxypropylene units in the backbone. As shown by the structure, JEFFAMINE® T-403 is a trifunctional primary amine having an average molecular weight of approximately 440. Its amine groups are located on secondary carbon atoms at the ends of aliphatic polyether chains.



- APPLICATIONS**
- Epoxy curing agent
  - Anti-sag agent for polyurethanes

- BENEFITS**
- Low color and vapor pressure
  - Completely miscible with a wide variety of solvents, including water
  - Improves flexibility and strength

**SALES SPECIFICATIONS**

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Colorless to pale yellow with slight haze	ST-30.1
Color, Pt-Co	50 max.	ST-30.12
Primary amine, % of total amine	90 min.	ST-5.34
Total acetylatables, meq/g	6.5 - 7.1	ST-31.39
Total amine, meq/g	6.1 - 6.6	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**

CAS Number 39423-51-3  
See SDS for all regulatory information.

**Shelf Life**

The product should retain its conformance to sales specifications for a period of at least two years from date of manufacture if the product is stored at less than 100°F in its undamaged, unopened, factory packaged container.

**Typical Properties**

AHEW (amine hydrogen equivalent wt.), g/eq	81
Flash point, PMCC, °C (°F)	196 (385)
Density, g/ml (lb/gal), 25°C	0.978 (8.12)
pH, 5% aqueous solution	11.6
Refractive index, n <sub>D</sub> <sup>20</sup>	1.46
Vapor Pressure, mmHg/°C	1/181
	5/207
Viscosity, cSt, 25°C (77°F)	72

In general, the user should determine the suitability of any chemical compound, no matter what the shelf life or length of time of storage. Each user should conduct a sufficient investigation to establish the suitability of any product for his intended use.

## TOXICITY AND SAFETY

For 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 <sup>®1</sup>
Gaskets, packing	Polypropylene or TEFLON <sup>®1</sup> (elastomers such as neoprene, Buna N, and VITON <sup>®1</sup> 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

<sup>1</sup>VITON<sup>®</sup> and TEFLON<sup>®</sup> are registered trademarks of The Chemours Company.

JEFFAMINE<sup>®</sup> T-403 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<sup>®</sup> T-403 polyetheramine can be accomplished using warm water and steam.

## AVAILABILITY

JEFFAMINE<sup>®</sup> T-430 polyetheramine is available in bulk, in totes, and in drums of 440 pounds (200 kg) net weight. Small evaluation samples can be obtained by contacting any Huntsman Performance Products sales office.

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