

# Bromothane™ E

### Fast, Powerful, Versatile Particulate Removal from Enhanced Polarity



- **Highly Polar Solvent Optimized for Particulate Removal**
- **Fast Drying, No Rinsing**
- **High Temperature Cleaning for the Toughest Contamination**

#### General Information

Bromothane™ E is a powerful solvent primarily designed to remove particulate (insoluble) contamination because of its exceptional ability to break electrostatic bonds than lock particulate onto substrates. This highly polar cleaner is a replacement for most chlorinated solvents. It's safe, fast, and economical.

#### Technical Summary

Bromothane E is stabilized normal propyl bromide (nPB) and 15% isopropanol produced in the USA. Bromothane E is particularly well-suited to removing particulate because it is highly polar. With a Kauri-Butanol ( $K_b$ ) rating over 100, it removes fingerprints, fluxes, oils, adhesives, resins, greases, some conformal coatings, most waxes and buffing compounds. This powerful, fast-drying cleaner is ideally suited for use in a vapor degreaser and replaces 1,1,1-TCA, TCE and perc.

In terms of materials, it is safe on most components, substrates, ceramics, and metals, glass, and durable plastics such as Nylon®, butyl rubber, fiberglass, HDPE and Viton® show excellent compatibility with the solvent, but acrylics are degraded. Compatibility testing is recommended.

Bromothane E is stable and does not degrade during storage. It should be stored in a clean, dry area and protected from temperature extremes. In use, it is sensitive to the condition of the stabilizer package, so it is important to regularly check the stabilizer (technically, the "acid acceptance") on a regular basis, especially when cleaning reactive metals.

With a toxicity rating of 10 ppm, Bromothane E is safe in engineered systems when using the recommended procedures. A powerful and cost-effective solvent, Bromothane E is an excellent choice for the most challenging applications.

#### Technical Details

Chemical Family n-Propyl Bromide (nPB)  
Appearance Clear to Pale Yellow Liquid

#### Solvency & Cleaning Data

Boiling Point	66°C / 150.8°F
Specific Gravity @ 25°C	1.19
Kauri Butanol Value ( $K_b$ )	>100
Viscosity (cps @ 25°C)	0.49
Surface Tension (dynes/cm @ 25°C)	25.9
Vapor Pressure (mm Hg)	111.0
Vapor Density (Air = 1)	4.25
Evaporation Rate (TCA= 1)	0.96
Percent Volatile	100%
Heat of Vaporization (cal/g @ Boiling Point)	58.8
Specific Heat @ 25°C	0.27
Solubility in Water	0.1%
Solubility of Water in Solvent	1.0%

#### Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA, Chemtura)	10
Flashpoint (TCC) / Rating	None/Nonflammable
NFPA	Health: 2; Fire: 1; Reactivity: 0
Ozone-Depletion Potential	0.0006
Organic Content (g/L)	1,190
Global Warming Potential (GWP)	0.31
Atmospheric Life Time (Days)	16
NESHAP, SARA or RCRA Regulated	No
RoHS and WEEE Compliant	Yes
TSCA Listed	Yes
SNAP Approved	Yes

#### Material Compatibility (Partial Listing):

Compatible: Polyethylene, Acetal Polyester, Butyl Rubber, Fiber glass, PET, Nylon®, HDPE, Viton®, PTFE, metals, glass, ceramics

Test / Incompatible: Polystyrene, Polycarbonate, Polypropylene, Polyurethane, PVC, ABS, Polyphenylene Oxide, Acrylics, Buna N, Buna S, CPVC, Polysulfone

#### Packaging

M2S-BE2P	45 lb. (20.4 kg) Pails	5 gal./19 L
M2S-BE2D	500 lb. (226.8 kg) Drums	55 gal./200 L

Bromothane E now features a newly formulated stabilizer that improves product performance. Because of this change, the weights and part numbers have been adjusted but the product's performance is otherwise unchanged. The shelf life for these part numbers is unlimited.

#### Related Products

BromoTest™ Acid Acceptance Kit — Depending upon the quantity of water and/or metal particulate introduced into the system, it is possible for the stabilizer to be consumed. A quick, simple test with this kit measures the stabilizer concentration.

BromoBooster™ — This is a stabilizer booster. If there is a low level of stabilizer, BromoBooster is used to restore the stabilizer ratio, extending the solvent life.

Exposure Badges — Bromothane users are required to perform a simple workplace exposure test annually. This simple kit makes it easy and fast.

#### Product Notes

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