

Bromothane™ R

Simplify System Conversions with This Powerful, Reliable Cleaner



- Powerful Cleaner for Fluxes, Pastes
- Fast Drying, No Rinsing
- Operates at Higher Temperatures
- Faster, Simpler than Water Cleaning

General Information

Bromothane™ R is a powerful, nonflammable solvent designed for customers needing to remove both organic and ionic contamination as well as insoluble particulate. This cleaner is an excellent replacement for most ozone-depleting and chlorinated solvents.

Technical Summary

Bromothane R contains stabilized normal propyl bromide (nPB) and 7.5% isopropanol, produced in the USA. This powerful, fast-drying cleaner is ideally suited for use in a vapor degreaser. Bromothane R replaces 1,1,1-trichloroethane (TCA), TCE and perc. A highly active solvent with a Kauri-Butanol (K_b) rating over 100, it removes organic, ionic and particulate contamination including fingerprints, fluxes, lubricating oils, cutting oils, adhesives, resins and even heavy greases. It is an excellent choice for conformal coatings, waxes and buffing compounds.

Converting from competitive products to Bromothane R is easy, since customers can enjoy the benefits of Bromothane technical service, support, quality and domestic supplies without the hassles of a complex requalification test.

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 R 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 necessary to check the acidity (technically, the “acid acceptance”) of the solvent on a regular basis, especially when cleaning reactive metals.

With a toxicity rating of 10 ppm, Bromothane R is restricted to use in engineered systems. MicroCare requires an annual personal air monitoring program to ensure worker safety and compliance with recommended procedures.

A powerful and cost-effective solvent, Bromothane R is offered with a “first fill” training program which eliminates waste, improves cleaning efficiency and ensures the optimal cleaning procedures are used.

Technical Details

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

Solvency & Cleaning Data

Boiling Point	68°C / 154°F
Specific Gravity @ 25°C	1.25
Kauri Butanol Value (K_b)	>100
Viscosity (cps) @ 25°C	0.49
Surface Tension (dynes/cm @ 25°C)	25.9
Vapor Pressure (mm Hg @ 20°C)	111.0
Vapor Density (Air = 1)	4.25
Evaporation Rate (TCA= 1)	0.96
Percent Volatile	100%
Heat of Vaporization (Boiling Point)	58.8 cal/g
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 TLV, Chemtura)	10
Flashpoint (TCC) / Rating	None/Nonflammable
Ozone-Depletion Potential	0.0006
Organic Content (g/L)	1,250
Global Warming Potential (GWP)	0.3
Atmospheric Life Time (Days)	16
NFPA	Health: 2; Fire: 1; Reactivity: 0
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 and Revised Part Numbers

M2S-BR2P	45 lb. (20.4 kg) Pail	5 gal. (19 L)
M2S-BR2D	500 lb. (226.8 kg) Drum	55 gal. (200 L)

Bromothane R 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 all 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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