

Bromothane™ S

Powerful Degreasing in an Affordable Package



- **Fast, Consistent Cleaning on the Toughest of Soils**
- **Nonflammable, Fast Drying, No Residues, Low Energy Costs**
- **An Excellent Replacement for Chlorinated Solvents**

General Information

Bromothane™ S from Micro Care is a noteworthy innovation in the world of metal finishing and precision cleaning. This cleaner is a powerful replacement for almost all chlorinated solvents

and may be useful as a replacement for ozone-depleting solvents as well as. It delivers speedy and consistent cleaning as a economical, nonflammable precision cleaner.

Technical Summary

Bromothane S is stabilized normal propyl bromide (nPB) produced in the USA. This cleaner is ideally suited for use in a vapor degreaser. Bromothane S replaces chlorinated solvents such as 1,1,1-TCA, TCE and perc as well as some ozone-depleting solvents such as HCFC-141b. A highly active solvent with a Kauri-Butanol (K_b) rating of 125, it removes organic, ionic and particulate contamination including fingerprints, fluxes, lubricating oils, cutting oils, adhesives, resins, greases, waxes and buffing compounds.

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 S 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 (although other manufacturers use higher ratings), Bromothane S is safe in engineered systems when using the recommended procedures. Uniquely, MicroCare requires an annual personal air monitoring program.

A powerful and cost-effective solvent, Bromothane S 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	71°C / 160°F
Specific Gravity @ 25°C	1.322
Kauri Butanol Value (K_b)	125
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%

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA TLV, Chemtura)	10
Flashpoint (TCC)/Rating	None/Nonflammable
Ozone-Depletion Potential	0.0006
Non-Exempt Organic Content (g/L)	1,322
Global Warming Potential (GWP)	0.31
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-BN2P	50 lb. (22.7 kg) Pails	5 gal.
M2S-BN2D	573 lb. (260 kg) Drums	55 gal.

Bromothane S 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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