

VaporFlor 4.5 Solvent

Benefits

VaporFlor™ 4.5 Solvent is the ultimate drop-in replacement for trichloroethylene (TCE), perchloroethylene (PERC), HCFC-225 and other regulated solvents in open top and vacuum vapor degreasers. VaporFlor 4.5 is non-flammable, SNAP approved and has outstanding solvency. Used as directed, VaporFlor 4.5 will help reduce hazardous emissions, minimize environmental reporting and is considered the low cost alternative when switching from chlorinated solvents.

Product Contents

VaporFlor 4.5 is a precise mixture of n-propyl bromide (nPB), alcohol and stabilizers. This powerful azeotrope is perfect for cleaning, rinsing and drying all types of precision parts in a waterless process. VaporFlor 4.5 should only be used in tightly controlled open top or vacuum vapor degreasers to minimize operator exposure and emissive losses.

Applications

VaporFlor Solvent can clean a variety of soils and residues including:

Solder Flux/Paste Residues	Ionic Residues	Adhesives
Greases	Mineral Oils	Carbon Soils
Buffing Compounds	Waxes	Hydraulic Fluids
Silicone	Lapping Compounds	Sealants
Lubricants	Synthetic Oils	Bituminous Asphalt

Vapor Degreaser Settings and Maintenance

Recommended settings for temperature and safety sensors on a typical vapor degreaser using VaporFlor 4.5 Solvent.

Refrigeration Thermostat (RT)	45°F / 7°C
Safety Vapor Control (SVC)	149°F / 65°C
High Temperature Control (HTC)	169°F / 76°C
Liquid Temperature Control/Sensor (LTC)	164°F / 73°C
Vapor Up Thermostat (VU/TH)	149°F / 65°C

VaporFlor 4.5 Solvent can be used, distilled and recycled numerous times before losing the solvent loses its capacity to neutralize acid residues. As with all nPB-based solvents, this solvent should be monitored regularly to insure adequate acid acceptance levels. If acid acceptance levels ever reach <0.10% wt NaOH, remove the spent solvent from the sump and replace with fresh VaporFlor 4.5 Solvent.

VaporFlor 4.5 Acid Acceptance/ Bath Monitoring Procedure - Digital Titrator Method is provided to all new customers.

Environmental & Regulatory Status

Global Warming Potential (GWP)	Low
Ozone Depletion Potential (ODP)	0.013-0.018
RoHS Compliant	Yes
US Hazardous Air Pollutant (HAP)	No
US Prop 65, CA	Yes
US Nat'l Emission Standards for Hazardous Air Pollutants (NESHAPs)	Not Regulated
US Resource Conservation and Recovery Act (RCRA)	Not Regulated
US Significant New Alternatives Program (SNAP)	Approved
US Superfund Amendments and Reauthorization Act (SARA)	Not Regulated
VOC Content (concentrate)	~1250 g/l

Compatibility

VaporFlor Solvent is compatible with most materials and parts typically cleaned with chlorinated solvents in vapor degreasers. For specific recommendations on plastics and elastomers, please contact Florachem.

Packaging, Handling, and Storage

VaporFlor 4.5 Solvent is packaged in 55-gallon drums (250kg net).

It is classified as non-hazardous for transport by the U.S. DOT. Chemical-resistant gloves and safety glasses should be worn when handling.

Store VaporFlor4.5 inside under ambient conditions. Shelf life is indefinite however quality should be checked after 36 months in unopened, original containers. This product is rated as non-flammable by US NFPA and OSHA.

Disposal

Incineration is the most common disposal method for nPB solvent waste. Contact your local waste management company for solvent recycling in your area.

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Worldwide Locations: Jacksonville, FL. : Mission, TX. : Newark NJ : Springfield, MO : Hong Kong. : Tokyo : Osaka

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