

TMC-45 Specialty Fluid

A PFAS-free, hydrofluoroolefin (HFO).

PRODUCT DESCRIPTION

TMC-45 Specialty Fluid was designed with no Hydrofluorochlorocarbon (HFC) or hydrofluoroethers (HFEs). The proprietary compound of TMC-45 is not a PFAS substance as defined by USEPA or OECD.

APPLICATIONS

- 1 Precision Cleaning Solvent
- 2 Vapor Degreasing
- 3 Cold Wipe Cleaning
- 4 Heat Transfer

COMPATIBLE MATERIALS

Polyethylene, Polyvinylchloride (PVC, CPVC), Polyester (PET, BET), Polyimide (PI, PEI, PAI), Polyetherketone (PEK), Polyaryletherketone (PEEK), Polyarylsulfone (PAS), Polyphenylene Sulfide (PPS), Polypropylene, Acetal, Epoxy, PTFE, Teflon, Phenolic, Polysulfone (PSO), Ionomer, EPDM

INCOMPATIBLE MATERIALS

Polystyrene, Polyphenylene Oxide (PPO), Polycarbonate, ABS Epichlorohydrin, Silicone, Natural Rubber, Acrylic

KEY FEATURES



Performance

TMC-45 is excellent for cleaning applications as a direct substitute for solvents like N-propyl bromide (nPB), Chemours Vertrel[®], 3M Novec[®], HCFC-225 and others.



Features

- PFAS Free
- Zero Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- Reclaimable by TMC Industries, Inc.
- Nonflammable
- No Flash Point
- No HFC or HFEs
- Low Surface Tension
- Low Viscosity



Packaging



1-Gallon Jug
(11lb/5kg)



5-Gallon Pail
(44lb/20kg)



55-Gallon Drum
(550lb/250kg)



TMC-45

PHYSICAL PROPERTIES

PROPERTY	UNITS	TMC-45
Form		Liquid
Color		Colorless
Odor		Odorless
Boiling Point	°C	45.5
Flash Point		None
Specific Gravity		1.27
Lower Explosion Limit (LEL)		9.7%
Upper Explosion Limit (UEL)		12.8%
Ozone Depletion Potential (ODP)		0
Global Warming Potential (GWP)		<1

Storage and Shelf Life: The shelf life for TMC-45 is 60 months from the date of manufacture when stored in the original packaging materials and stored under normal conditions. TMC will re-certify material every 5 years up to 20 years.

Safety and Handling: Before using this product, please thoroughly read the current product SDS and label, following all applicable safety precautions described therein (e.g., recommended storage and safe handling, appropriate exposure controls and personal protective equipment (PPE), addressing accidental spills, disposal considerations, etc.).

Recycle and Disposal Options: As part of TMC's commitment to product stewardship and customer service, we offer the Used Fluid Disposal Program for free pickup of used TMC fluids in the U.S. We will ensure that your used TMC fluids will be managed properly and responsibly. A minimum of 30 gallons of used TMC fluid is required for participation in this free program. Amounts of less than 30 gallons will be at your own expense and will be determined based upon quantity and approved profile of waste. For additional information on the TMC Used Fluid Reclamation Program, please contact sales@tmcindustries.com.

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your TMC representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that TMC believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond TMC's control and uniquely within user's control can affect the use and performance of a TMC product in a particular application. Given the variety of factors that can affect the use and performance of a TMC product, user is solely responsible for evaluating the TMC product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer:

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