



TECHNICAL BULLETIN TB-101

INHIBITOR REMOVERS AND PREPACKED COLUMNS

Inhibitor-remover packings and ready-to-use, disposable prepacked columns offer a quick and convenient means of removing small amounts of inhibitors which are added to reagents or solvents that would otherwise be unstable (e.g., they may polymerize, oxidize or darken) on storage. The inhibitor removers are useful in applications which require that the stabilizer or inhibitor [i.e., hydroquinone (HQ), hydroquinone monomethyl ether (MEHQ, 4-methoxyphenol) or 4-tert-butylcatechol (TBC)] be removed prior to use.

TBC columns and packings are not recommended for use with polar solvents, including acrylic acid. We suggest vacuum distillation for such applications.

The prepacked glass columns come complete and ready for use. No prewash or pretreatment of any kind is necessary.

The inhibitor removing columns are moisture sensitive and come packaged with end caps.

Procedure

For optimum results, the following procedure is recommended.

- Step 1** Remove end cap and add the monomer (or solvent) to an addition funnel which is secured above the column.
- Step 2** Add the monomer **dropwise** to the column. Monitor the rate of addition to prevent overflow of the column. Collect the monomer in an appropriate container.
- Step 3** For low-melting solid monomers, keep the temperature of the column above the melting point during use. Do not overheat as this may cause the monomer to polymerize on the column. For very viscous or high-melting solid monomers, it is recommended that the monomer be diluted in an appropriate solvent before addition to the column.
- Step 4** Unused columns can be disposed of with other chemical solid waste. After use the toxicity and hazards of the monomer from which the inhibitor is being removed should be considered in deciding how to dispose of the packing material or column.

INHIBITOR-REMOVER PRODUCTS

Catalog No.	Inhibitor removed	Description	Capacity
SDHR-4	HQ, MEHQ	Column	400 ml @ 100 ppm HQ
DHR-4	HQ, MEHQ	Column	2.5 liters @ 100 ppm HQ
HR-4	HQ, MEHQ	Packing	80 bed volumes @ 100 ppm HQ
SDTR-7	TBC	Column	1 liter @ 100 ppm TBC
DTR-7	TBC	Column	6 liters @ 100 ppm TBC
TR-7	TBC	Packing	300 bed volumes @ 100 ppm TBC