Appendix

Common Manufacturer Seals and Containers

**AcroSeal**
Image Source: [http://www.acros.com/MyBrochure/AcroSealVersusCompetitivePackagings.pdf](http://www.acros.com/MyBrochure/AcroSealVersusCompetitivePackagings.pdf)

**ALDRICH Sure/Seal™**

“The Sure/Seal bottle incorporates the inert composition of our amber glass bottles with a time-tested crimp-top system. This design ensures the exceptional state of dryness achieved at time of purification is maintained throughout long-term storage and use.

Before filling, low levels traces of moisture are removed from the bottle through oven drying. The bottles are then filled under an inert atmosphere of dry nitrogen to prevent moisture build-up and sealed with our unique Sure/Seal liner and crown cap. Anhydrous and Biotech grades are available in 100mL, 1L and 2L Sure/Seal bottles (refer to above Bottle-Packaging Specifications).
Oxford® Sure/Seal™ storage valve-cap

For use with Aldrich products packed in Sure/Seal bottles. Screws over Sure/Seal crown cap to permit repeated dispensing of product via syringe while ensuring positive valved closure. Technical Information Bulletin AL-195 includes instructions for use of the valve.


Aldrich® Sure/Seal™ septum-inlet transfer adapter

This inexpensive septum-inlet adapter screws over the Sure/Seal crown to permit repeated dispensing of product via syringe while protecting the contents of the bottle from air and moisture. The adapter allows either an 8 mm septum cap or standard rubber septa to be used.

The 8 mm septum cap (included) with flat PTFE-faced septum screws onto the side-arm for dispensing or short term
storage. Standard rubber septa (Z565695 or Z565679) fit on side-arms for dispensing. For use with Aldrich products packed in Sure/Seal bottles.


Z122653 ALDRICH

Sure/Pac™ steel sample cylinder

Provides a convenient and safe method for shipping, storing, and dispensing research quantities of air-sensitive liquids or liquefied gases whose reactive nature or pressure precludes use of glass bottles. Because Sure/Pac cylinders are made of steel they are virtually unbreakable, and their wider base makes them more resistant to tipping over than a glass bottle. When fitted with the Sure/Seal ball valve allows a positive, leak-resistant closure for air sensitive liquids, which may be additionally secured by the use of a brass cylinder plug. The ball valve is wide enough to permit a solution to be withdrawn as needed with a conventional 9 in. disposable Pasteur pipette which will reach the bottom of the 275 mL Sure/Pac cylinder. When fitted with gas needle valve may be used to store and dispense low boiling point liquids and liquefied gases as low pressure gas. Cylinders are made of low carbon steel and have copper brazed seams. Meets DOT specification 4B-350 (Z420646 only) and 4B-240, rated 240 psi, and have 1/4 in. NPTF inlet.

Technical Bulletin AL-136 The Aldrich Sure/Pac Cylinder System
The packaging and recommended transfer procedures for air-sensitive materials

Glass Reagent Storage bottles without joints

Clear glass, one piece design with stopcock equipped septum-inlet.

Storage of air-sensitive materials.

Specialized glass bottles equipped with glass or teflon stopcocks are superior for the storage of pyrophoric liquids and can be purchased from most laboratory suppliers (e.g., Aldrich)
Cat. No. Z10,733-6, see Image C2-2).
http://oregonstate.edu/ehs/sd0083