



Marketing Contact: Bonnie Cote  
781-961-5400  
bcote@healthstaronline.com

FOR IMMEDIATE RELEASE

## **NEW BLOW/FILL/SEAL METERED-DOSE DROPPER BOTTLE/CAP DESIGN – MD-DropperCap™**

HealthStar, Inc., a leading reseller and rebuilder of Blow/Fill/Seal machinery announces new dropper bottle technology for BFS applications, the MD-DropperCap™. This patent-pending design produces metered-dose eye drops with standard BFS technology, without the added step of isolation/insertion technology.

In the past, it has been necessary to employ isolation/insertion technology to achieve a controlled drop delivery for ophthalmic type products. In this legacy process, a pre-assembled dropper and cap are inserted into the bottle after container formation, prior to seal mold closure. Production rates are negatively impacted (as much as a 50% reduction in output), since this process results in very long molding cycle times of 25 to 28 seconds. In addition, the process requires the use of an isolator which nearly doubles the cost of the machinery. Validation and machine operation are also much more complicated as a result.

HealthStar's new MD-DropperCap™ eliminates the need for isolation/insertion technology. Containers are molded using standard BFS manufacturing machines and procedures. Cycle times are maintained at normal BFS output levels (typically about 12 seconds), vastly improving productivity. The pre-assembled and sterilized dropper caps are simply 'snapped onto' the BFS containers (post manufacturing in a clean environment). The contents of the bottle are never in contact with the MD-DropperCap™ until activated by the patient. The result is a low cost, easy to manufacture, safe container closure system for controlled drop delivery applications.

BFS has long been recognized as an Advanced Aseptic Manufacturing Technique. The use of the new MD-DropperCap™ from Healthstar for BFS applications competes favorably with conventional container filling, tip insertion and capping processes. For conventional processes, regulatory guidance dictates the handling of pre-sterilized bottles, tips and caps under clean room conditions, resulting in a RABS (Remote Access Barrier System) requirement for new ophthalmic manufacturing operations. Comparing the initial cost of facilities, machinery and day to day operations, the new MD-DropperCap™ proves BFS technology to be less expensive and easier to use than traditional manufacturing techniques.

Prototype samples are available now and manufacturing quantities can be produced as required according to customer specifications.

For more information.....

###

### **HealthStar, Inc.**

62 Johnson Lane, Braintree, MA 02184 USA  
Phone:781-961-5400 Toll Free:1-800-LIKE-NEW Fax:781-961-5456  
Email: info@healthstaronline.com; Website: www.HealthStaronline.com