Coast Guard, DHS

§ 153.530 Special requirements for alkylene oxides.

When Table 1 refers to this section, a containment system must meet the following:

(a) Except as provided in paragraphs (b) and (c) of this section, a cargo containment system must be made of:
   (1) Stainless steel other than types 416 and 442; and
   (2) Steel.

(b) Except as provided in paragraph (c) of this section, gaskets must be composites of spirally wound stainless steel and Teflon or similar fluorinated polymer.

(c) The Commandant (CG–ENG) approves a cargo containment system using materials other than those described in this section for alkylene oxides on a case by case basis if:
   (1) The person wishing to have the containment system approved completes any tests prescribed by the Commandant (CG–ENG); and
   (2) The Commandant (CG–ENG) approves the results of the tests and the material for use with alkylene oxides.

(d) The following materials are generally found unsatisfactory for gaskets, packing, insulation, and similar uses in alkylene oxide containment systems and would require extensive testing as described in paragraph (c) of this section before being approved:
   (1) Neoprene or natural rubber if it might be in contact with the alkylene oxide.
   (2) Asbestos or asbestos mixed with other materials such as with many common insulations, packing materials, and gasket materials.
   (3) Materials containing oxides of magnesium, such as mineral wools.

(e) The tank’s relief valve setting must not be less than 21 kPa gauge (approx. 3 psig).