§ 153.1011 Changing containment systems and hoses to and from alkylene oxide service.

(a) The person in charge of cargo transfer shall make sure that:

(1) No alkylene oxide is loaded into a containment system that last carried a cargo other than an alkylene oxide unless the containment system has been cleaned and inspected to make sure it is in good condition with no heavy rust accumulations or traces of previous cargoes;

(2) No alkylene oxide is loaded into a containment system that within the previous three loadings carried a cargo listed in paragraph (b) of this section unless the containment system has been cleaned to the satisfaction of a Coast Guard Marine Inspector or a person specifically authorized by the Commandant (CG–ENG) to approve alkylene oxide tank cleaning;

(b) The following cargoes are particularly reactive with alkylene oxides:

(1) Non-oxidizing mineral acids (e.g., hydrochloric, phosphoric);
(2) Sulfuric acid;
(3) Nitric acid;
(4) Organic acids (e.g., acetic, formic);
(5) Halogenated organic acids (e.g., chloroacetic);
(6) Sulfonic acids (e.g., alkyl benzene sulfonic);
(7) Caustic alkalies (e.g., caustic soda, caustic potash; sodium hydrosulfide);
(8) Ammonia and ammonia solutions;
(9) Aliphatic amines;
(10) Alkanolamines; and
(11) Oxidizing substances.


§ 153.1020 Unusually toxic cargoes.

(a) No person may load or carry a cargo referenced to this section in Table 1 unless the cargo’s piping and venting systems are separated from piping and venting systems carrying cargoes not referred to this section.

(b) The master shall ensure that no heat transfer medium that has been circulated through a cargo referenced to this section in Table 1 is circulated through a cargo not referenced to this section unless he determines the medium to be uncontaminated with cargo.