### § 173.355

of isooctane in the coolant bath so that the solvent is completely immersed. Cool for at least 15 minutes and then pass 120 liters of the test gas through the absorption train at a rate of 30 liters per hour or less. Maintain the coolant bath at 0 °C throughout. Remove the absorption vessel from the bath, disconnect, and warm to room temperature. Add isooctane to bring the contents of the absorption vessel to 60 milliliters, and mix. Determine the absorbance of the solution in the 5-centimeter cell in the range 255 millimicrons to 310 millimicrons, inclusive, compared to isooctane. The absorbance of the solution of combustion product gas shall not exceed that of the isooctane solvent at any wavelength in the specified range by more than one-third of the standard reference absorbance.

#### § 173.355 Dichlorodifluoromethane.

The food additive dichlorodifluoromethane may be safely used in food in accordance with the following prescribed conditions:

- (a) The additive has a purity of not less than 99.97 percent.
- (b) It is used or intended for use, in accordance with good manufacturing practice, as a direct-contact freezing agent for foods.
- (c) To assure safe use of the additive: (1) The label of its container shall bear, in addition to the other informa-
- tion required by the act, the following: (i) The name of the additive, dichlorodifluoromethane, with or without the
- parenthetical name "Food Freezant
  - (ii) The designation "food grade".
- (2) The label or labeling of the food additive container shall bear adequate directions for use.

# § 173.356 Hydrogen peroxide.

Hydrogen peroxide (CAS Reg. No. 7722-84-1) may be safely used to treat food in accordance with the following conditions:

(a) The additive meets the specifications of the Food Chemicals Codex, 7th ed. (2010), pp. 496 and 497, which is in-

corporated by reference. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain copies from the United States Pharmacopeial Convention, 12601 Twinbrook Pkwy., Rockville, MD 20852 (Internet address http:// www.usp.org). Copies may be examined at the Center for Food Safety and Applied Nutrition's Library, Food and Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, 301-436-2163, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal register/ regulations/ code of federal

ibr locations.html.

(b) The additive is used as an antimicrobial agent in the production of modified whey (including, but not limited to, whey protein concentrates and protein whev isolates) ultrafiltration methods, at a level not to exceed 0.001 percent by weight of the whey, providing that residual hydrogen peroxide is removed by appropriate chemical or physical means during the processing of the modified whey.

[76 FR 11330, Mar. 2, 2011]

### §173.357 Materials used as fixing agents in the immobilization of enzyme preparations.

Fixing agents may be safely used in the immobilization of enzyme preparations in accordance with the following conditions:

- (a) The materials consist of one or more of the following:
- (1) Substances generally recognized as safe in food.
- (2) Substances identified in this subparagraph and subject to such limitations as are provided:

Substances	Limitations
Acrylamide-acrylic acid resin: Complying with § 173.5(a)(1) and (b) of this chapter.	May be used as a fixing material in the immobilization of glucose isomerase en- zyme preparations for use in the manufacture of high fructose corn syrup, in ac- cordance with §184.1372 of this chapter.
Cellulose triacetate	May be used as a fixing material in the immobilization of lactase for use in reducing the lactose content of milk.
Diethylaminoethyl-cellulose	May be used as a fixing material in the immobilization of glucose isomerase en- zyme preparations for use in the manufacture of high fructose corn syrup, in ac- cordance with §184.1372 of this chapter.

Substances	Limitations
Dimethylamine-epichlorohydrin resin: Complying with § 173.60(a) and (b) of this chapter. Glutaraldehyde	May be used as a fixing material in the immobilization of glucose isomerase enzyme preparations for use in the manufacture of high fructose corn syrup, in accordance with § 184.1372 of this chapter.  Do.
9)  9)  Polyethylenimine reaction product with 1,2-dichloroethane (CAS Reg. No. 68130–97–2) is the reaction product of homopolymerization of ethylenimine in aqueous hydrochloric acid at 100 °C and of cross-linking with 1,2-dichloroethane. The finished polymer has an average molecular weight of 50,000 to 70,000 as determined by gel permeation chromatography. The analytical method is entitled "Methodology for Molecular Weight Detection of Polyethylenimine," which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the Division of Petition Control, Center for Food Safety and Applied Nutrition (HFS–200), 5100 Paint Branch Pkwy., College Park, MD 20740, and may be examined at the Center for Food Safety and Applied Nutrition's Library, 5100 Paint Branch Pkwy., College Park, MD 20740, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.	May be used as a fixing material in the immobilization of glucoamylase enzyme preparations from Aspergillus niger for use in the manufacture of beer.  May be used as a fixing material in the immobilization of:  1. Glucose isomerase enzyme preparations for use in the manufacture of high fructose corn syrup, in accordance with § 184.1372 of this chapter.  2. Glucoamylase enzyme preparations from Aspergillus niger for use in the manufacture of beer. Residual ethylenimine in the finished polyethylenimine polyme will be less than 1 part per million as determined by gas chromatography-mass spectrometry. The residual ethylenimine betection in Polyethylenimine," which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51 Residual 1,2-dichloroethane in the finished polyethylenimine polymer will be less than 1 part per million as determined by gas chromatography. The residual 1,2-dichloroethane is determined by gas chromatography. The residual 1,2-dichloroethane is determined by an analytical method entitled, "Methodology for Ethylenedichloride Detection in Polyethylenimine," which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the Division of Petition Control, Center for Food Safety and Applied Nutrition (HFS–215), 5100 Paint Branch Pkwy., College Park, MD 20740, or may be examined at the Center for Food Safety and Applied Nutrition's Library, 5100 Paint Branch Pkwy., College Park, MD 20740, or at the National Archives and Records Administration (NARA). For information on the availability of this materia at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal_register.code_of_federal_regulations/ibr_locations.html.

(b) The fixed enzyme preparation is washed to remove residues of the fixing materials.

[48 FR 5716, Feb. 8, 1983, as amended at 52 FR 39512, Oct. 22, 1987; 55 FR 12172, Apr. 2, 1990; 59 FR 36937, July 20, 1994; 61 FR 4873, Feb. 9, 1996; 61 FR 14245, Apr. 1, 1996; 67 FR 42716, June 25, 2002]

# $\S 173.360$ Octafluorocyclobutane.

The food additive octafluorocyclo-butane may be safely used as a propellant and aerating agent in foamed or sprayed food products in accordance with the following conditions:

(a) The food additive meets the following specifications:

99.99 percent octafluorocyclobutane. Less than 0.1 part per million fluoroclefins, calculated as perfluoroisobutylene.

(b) The additive is used or intended for use alone or with one or more of the following substances: Carbon dioxide, nitrous oxide, and propane, as a propellant and aerating agent for foamed or sprayed food products, except for those standardized foods that do not provide for such use.

- (c) To assure safe use of the additive:
- (1) The label of the food additive container shall bear, in addition to the other information required by the act, the following:
- (i) The name of the additive, octafluorocyclobutane.
- (ii) The percentage of the additive present in the case of a mixture.
  - (iii) The designation "food grade".
- (2) The label or labeling of the food additive container shall bear adequate directions for use.

#### §173.368 Ozone.

Ozone (CAS Reg. No. 10028–15–6) may be safely used in the treatment, storage, and processing of foods, including meat and poultry (unless such use is precluded by standards of identity in 9 CFR part 319), in accordance with the following prescribed conditions:

(a) The additive is an unstable, colorless gas with a pungent, characteristic odor, which occurs freely in nature. It