

**Alcohol and Tobacco Tax and Trade Bureau, Treasury**

**§ 21.62**

One hundred pounds of glycerin (glycerol), U.S.P., and 20 pounds of hard soap, N.F. XI.

(b) *Authorized uses.* (1) As a solvent:

- 113. Lotions and creams (hands, face, and body).
- 131. Tooth paste and tooth powder.
- 141. Shampoos.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

**§ 21.59 Formula No. 32.**

(a) *Formula.* To every 100 gallons of alcohol add:

Five gallons of ethyl ether.

(b) *Authorized uses.* (1) As a solvent:

- 031. Photographic film and emulsions.
- 034. Cellulose intermediates and industrial collodions.
- 052. Inks (not including meat branding inks).
- 241. Collodion, U.S.P.
- 311. Ethyl cellulose compounds (dehydration).
- 332. Processing miscellaneous food products.
- 342. Processing glandular products, vitamins, hormones, and yeasts.
- 343. Processing antibiotics and vaccines.
- 344. Processing medicinal chemicals (including alkaloids).
- 430. Sterilizing and preserving solutions.
- 481. Photoengraving and rotogravure solutions and dyes.

(2) As a raw material:

- 522. Ethyl chloride.
- 523. Other ethyl esters.
- 561. Ethyl ether.
- 562. Other ethers.
- 571. Ethylene dibromide.
- 572. Ethylene gas.
- 575. Drugs and medicinal chemicals.
- 579. Other chemicals.
- 580. Synthetic rubber.

(3) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

**§ 21.60 Formula No. 33.**

(a) *Formula.* To every 100 gallons of alcohol add:

Thirty pounds of gentian violet or gentian violet, U.S.P.

(b) *Authorized uses.* (1) As a solvent:

- 052. Inks (not including meat branding inks).

210. External pharmaceuticals, not U.S.P. or N.F.

249. Miscellaneous external pharmaceuticals, U.S.P. or N.F.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

(c) *Conditions governing use.* Meat branding inks made with Formula No. 33 do not meet U.S. Department of Agriculture meat inspection specifications for use in Federally inspected establishments. Specially denatured alcohol Formulas No. 3-A, 3-C, and 23-A are authorized for this purpose.

**§ 21.61 Formula No. 35.**

(a) *Formula.* To every 100 gallons of alcohol add:

29.75 gallons of ethyl acetate having an ester content of 100 percent by weight or the equivalent thereof not to exceed 35 gallons of ethyl acetate with an ester content of not less than 85 percent by weight.

(b) *Authorized uses.* (1) As a solvent:

- 015. Candy glazes.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

**§ 21.62 Formula No. 35-A.**

(a) *Formula.* To every 100 gallons of alcohol add:

4.25 gallons of ethyl acetate having an ester content of 100 percent by weight or the equivalent thereof not to exceed 5 gallons of ethyl acetate with an ester content of not less than 85 percent by weight.

(b) *Authorized uses.* (1) As a solvent:

- 015. Candy glazes.
- 331. Processing pectin.
- 332. Processing other food products.
- 342. Processing glandular products, vitamins, hormones, and yeasts.
- 343. Processing antibiotics and vaccines.
- 344. Processing medicinal chemicals (including alkaloids).
- 349. Miscellaneous drug processing (including manufacture of pills).
- 358. Processing miscellaneous chemicals.
- 359. Processing miscellaneous products.

(2) As a raw material:

- 511. Vinegar.
- 512. Acetic acid.
- 521. Ethyl acetate.
- 523. Other ethyl esters.
- 590. Synthetic resins.

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910. Animal feed supplements.

(3) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

**§ 21.63 Formula No. 36.**

(a) *Formula.* To every 100 gallons of alcohol add:

Three gallons of ammonia, aqueous, 27 to 30 percent by weight; 3 gallons of strong ammonia solution, N.F.: 17.5 pounds of caustic soda, liquid grade, containing 50 percent sodium hydroxide by weight; or 12.0 pounds of caustic soda, liquid grade, containing 73 percent sodium hydroxide by weight.

(b) *Authorized uses.* (1) As a solvent:

- 141. Shampoos.
- 142. Soap and bath preparations.
- 210. External pharmaceuticals, not U.S.P. or N.F.
- 450. Cleaning solutions (including household detergents).

(2) As a raw material:

- 530. Ethylamines.
- 540. Dyes and intermediates.
- 579. Other chemicals.

(3) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

**§ 21.64 Formula No. 37.**

(a) *Formula.* To every 100 gallons of alcohol add:

Forty-five fluid ounces of eucalyptol, N.F. XII, 30 avoirdupois ounces of thymol, N.F., and 20 avoirdupois ounces of menthol, U.S.P.

(b) *Authorized uses.* (1) As a solvent:

- 111. Hair and scalp preparations.
- 112. Bay rum.
- 113. Lotions and creams (hand, face, and body).
- 131. Dentifrices.
- 132. Mouth washes.
- 210. External pharmaceuticals, not U.S.P. or N.F.
- 244. Antiseptic solutions, U.S.P. or N.F.
- 410. Disinfectants, insecticides, fungicides, and other biocides.
- 430. Sterilizing and preserving solutions.
- 470. Theater sprays, incense, and room deodorants.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

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**§ 21.65 Formula No. 38-B.**

(a) *Formula.* To every 100 gallons of alcohol add:

Ten pounds of any one, or a total of 10 pounds of two or more, of the oils and substances listed below:

- Alpha terpineol
- Anethole, N.F.
- Anise oil, N.F.
- Bay oil (myrcia oil), N.F. XI.
- Benzaldehyde, N.F.
- Bergamot oil, N.F. XI.
- Bitter almond oil, N.F. X.
- Camphor, U.S.P.
- Cedar leaf oil, U.S.P. XIII.
- Chlorothymol, N.F. XII.
- Cinnamic aldehyde, N.F. IX.
- Cinnamon oil, N.F.
- Citronella oil, natural.
- Clove oil, N.F.
- Coal tar, U.S.P.
- Eucalyptol, N.F. XII.
- Eucalyptus oil, N.F.
- Eugenol, U.S.P.
- Guaiacol, N.F. X.
- Lavender oil, N.F.
- Menthol, U.S.P.
- Methyl salicylate, N.F.
- Mustard oil, volatile (allyl isothiocyanate), U.S.P. XII.
- Peppermint oil, N.F.
- Phenol, U.S.P.
- Phenyl salicylate (salol), N.F. XI.
- Pine oil, N.F. XII.
- Pine needle oil, dwarf, N.F.
- Rosemary oil, N.F. XII.
- Safrole.
- Sassafras oil, N.F. XI.
- Spearmint oil, N.F.
- Spearmint oil, terpeneless.
- Spike lavender oil, natural.
- Storax, U.S.P.
- Thyme oil, N.F. XII.
- Thymol, N.F.
- Tolu balsam, U.S.P.
- Turpentine oil, N.F. XI.

If it is shown that none of the above single denaturants or combinations can be used in the manufacture of a particular product, the user may submit an application to the appropriate TTB officer, requesting permission to use another essential oil or substance having denaturing properties satisfactory to the appropriate TTB officer. In such a case the user shall furnish the appropriate TTB officer, with specifications, assay methods, the name and address of the manufacturer, and an 8-ounce sample of the denaturant for analysis.

(b) *Authorized uses.* (1) As a solvent:

- 111. Hair and scalp preparations.