

## § 21.22

shall not decrease the denaturing value nor change the chemical or physical constants beyond the limits of the specifications for these denaturants as prescribed in subpart E, except as to odor. Proprietors of distilled spirits plants using denaturants to which such odorants or perfume materials have been added shall inform the appropriate ATF officer, in writing, of the names and properties of the odorants or perfume materials so used.

### § 21.22 Formula No. 18.

To every 100 gallons of ethyl alcohol of not less than 160 proof add:

- 2.50 gallons of either methyl isobutyl ketone, mixed isomers of nitropropane, or methyl *n*-butyl ketone;
- 0.125 gallon of pyronate or a similar compound;
- 0.50 gallon acetaldol (beta-hydroxybutyraldehyde); and
- 1.00 gallon of either kerosene, deodorized kerosene, gasoline, unleaded gasoline, rubber hydrocarbon solvent, or heptane.

### § 21.23 Formula No. 19.

To every 100 gallons of ethyl alcohol of not less than 160 proof add:

- 4.0 gallons of either methyl isobutyl ketone, mixed isomers of nitropropane, or methyl *n*-butyl ketone; and
- 1.0 gallon of either kerosene, deodorized kerosene, gasoline, unleaded gasoline, rubber hydrocarbon solvent, or heptane.

### § 21.24 Formula No. 20.

(a) *Formula.* To every 100 gallons of ethyl alcohol of not less than 195 proof add:

A total of 2.0 gallons of either unleaded gasoline, rubber hydrocarbon solvent, kerosene, or deodorized kerosene; or any combination of these.

(b) *Authorized use.* Restricted to fuel use, comparable to specially denatured alcohol "Use Code No." 611, 612, 613, 620, and 630.

## Subpart D—Specially Denatured Spirits Formulas and Authorized Uses

### § 21.31 General.

(a) *Formulas for specially denatured spirits.* Alcohol and rum shall be specially denatured only in accordance

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with formulas prescribed in this subpart (or in accordance with § 21.5).

(b) *Proof of spirits for denaturation.* Alcohol of not less than 185 proof shall be used in the manufacture of all formulas of specially denatured alcohol, unless otherwise specifically stated or unless otherwise authorized by the appropriate ATF officer. Rum for denaturation shall be of not less than 150 proof and may be denatured only in accordance with Formula No. 4.

(c) *Use of Denatured Spirits.* Users and manufacturers holding approved Forms 5150.19 (formerly 1479-A) covering use in processes or manufacture of products no longer authorized for a particular formula may continue that use. Pursuant to written application and subject to the provisions of 26 U.S.C. Chapter 51, Part 20 of this chapter, and this part, the appropriate ATF officer, may authorize the use of any formula of specially denatured alcohol or specially denatured rum for uses not specifically authorized in this part. The code number before each item under "authorized uses" shall be used in reporting the use of specially denatured alcohol or specially denatured rum.

[T.D. ATF-133, 48 FR 24673, June 2, 1983, as amended by T.D. ATF-199, 50 FR 9183, Mar. 6, 1985]

### § 21.32 Formula No. 1.

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

Four gallons of methyl alcohol and either ½ avoirdupois ounce of denatonium benzoate, N.F.; 1 gallon of methyl isobutyl ketone; 1 gallon of mixed isomers of nitropropane; or 1 gallon of methyl *n*-butyl ketone.

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

- 011. Cellulose coatings.
- 012. Synthetic resin coatings.
- 013. Shellac coatings.
- 014. Other natural resin coatings.
- 016. Other coatings.
- 021. Cellulose plastics.
- 022. Non-cellulose plastics, including resins.
- 031. Photographic film and emulsions.
- 032. Transparent sheeting.
- 033. Explosives.
- 034. Cellulose intermediates and industrial collodions.
- 035. Soldering flux.
- 036. Adhesives and binders.
- 041. Proprietary solvents.