

B. Uniform Regulation for the Method of Sale of Commodities

as adopted by
The National Council on Weights and Measures*

1. Background

The National Council on Weights and Measures (NCWM) has long been concerned with the proper units of measurement to be used in the sale of all commodities. This approach has gradually broadened to concerns of standardized package sizes and general identity of particular commodities. Requirements for individual products were at one time made a part of the Weights and Measures Law or were embodied in separate individual Model Regulations. In 1971, this “Model State Method of Sale of Commodities Regulation” was established (renamed in 1983); amendments have been adopted by the Conference almost annually since that time.

Sections with “added 1971” dates refer to those sections that were originally incorporated in the Weights and Measures Law or in individual Model Regulations recommended by the NCWM. Subsequent dates reflect the actual amendment or addition dates.

The 1979 edition included, for the first time, requirements for items packaged in quantities of the International System of Units (SI), the modernized metric system, as well as continuing to present requirements for U.S. customary quantities. It should be stressed that nothing in this Regulation requires changing to the SI system of measurement. SI values are given for the guidance of those wishing to adopt new SI quantities of the commodities governed by this Regulation. SI means the International System of Units as established in 1960 by the General Conference on Weights and Measures and interpreted or modified for the United States by the Secretary of Commerce.

This Regulation assimilates all of the actions periodically taken by the NCWM with respect to certain food items, non-food items, and general method of sale concepts. Its format is such that it will permit the addition of individual items at the end of appropriate sections as the need arises. Its adoption as a regulation by individual jurisdictions will eliminate the necessity for legislative consideration of changes in the method of sale of particular commodities. Such items will be able to be handled through the normal regulation-making process.

The Conference recognized that some states may only adopt the Method of Sale of Commodities Regulation but have the legal authority in their weights and measures law to also regulate and take enforcement action in the areas of fuels and related products. For this reason, the user will find fuels and related products within this regulation. A brief summary related to the development of regulations on these products can be found in the Background information of the Uniform Fuels and Automotive Lubricants Regulation. Efforts have been made when practical to align both regulations.

(Amended 2021)

2. Status of Promulgation

The table beginning on page 11 shows the status of adoption of the Uniform Regulation for the Method of Sale of Commodities.

*The National Council on Weights and Measures (NCWM) is supported by the National Institute of Standards and Technology (NIST) in partial implementation of its statutory responsibility for “cooperation with the states in securing uniformity in weights and measures laws and methods of inspection.”

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B. Uniform Regulation for the Method of Sale of Commodities**Preamble**

The purpose of this regulation is to require accurate and adequate information about commodities so that purchasers can make price and quantity comparisons.

Packages and their labels should enable consumers to obtain accurate information as to the quantity of the contents and should facilitate value comparisons. Equally, sales of commodities from bulk should be according to methods and units readily recognized and understood by, both, buyer and seller.

(Added 1989) (Amended 2019)

Section 1. Food Products [see *Section 1. NOTE 1*]

Unless otherwise specified or specifically permitted, the sale of any food product, whether sold from bulk or in packaged form, shall be only according to a unit of measure or weight that meets all of the following criteria:

- (1) Is recognized and defined by NIST as legal for use in commerce
- (2) Has been published in the “Federal Register”; and
- (3) The measurement values have metrological traceability ^(see *Section 1. NOTE 2*) to a national standard

NOTE: Sale of a product or commodity according to count, where appropriate to be fully informative to facilitate value comparison, is permissible as a method of sale.

(Added 2019)

1.1. Berries and Small Fruits

1.1.1. Definitions. – “Small fruits” includes, but is not limited to cherries, currants, and cherry tomatoes. “Berries” includes all fruit whose names end in the term “berry.”

(Added 1991)

Section 1. NOTE 1: Packages subject to this Section and the Federal Fair Packaging and Labeling Act shall be labeled in units of the International System of Units (SI) and U.S. customary systems of measure effective February 14, 1994, [except for seed (see Section 10.10. Packaged Seed) and camera film and recording tape (see Section 11.22. Camera Film, Video Recording Tape, Audio Recording Tape, and Other Image and Audio Recording Media Intended for Retail Sale and Consumer Use), and as specified in the Uniform Packaging and Labeling Regulation under Section 11.32. SI Units, Exemptions - Consumer Commodities]. SI units may appear first.

(Added 1982) (Amended 1990 and 1993)

Section 1. NOTE 2: As defined in NIST Handbook 130, Uniform Weights and Measures Law, Metrological traceability means the property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.

(Added 2019)

1.1.2. Methods of Sale. – Berries and small fruits shall be offered and exposed for sale and sold by weight ^[see *Section 1.1.2. NOTE*] or by volume. If sold by volume, they must:

(Amended 1991)

- (a) be in measure containers that are either open or else covered by uncolored transparent lids or other wrappings that do not obscure the contents, and

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- (b) have capacities per Section 1.1.2.(b)(1) or Section 1.1.2.(b)(2). When selling berries and small fruits by volume in measure containers, whether or not covered, the measure containers themselves shall not be packages for labeling purposes.

- (1) SI Capacities – 250 milliliters, 500 milliliters, or 1 liter.

(Added 1979) (Amended 1985)

- (2) U.S. Customary Capacities – 1/2 dry pint, 1 dry pint, or 1 dry quart.

Section 1.1.2. NOTE: When used in this regulation, the term “weight” means “mass.” (See paragraphs K. “Mass” and “Weight” in Section I. Introduction of NIST Handbook 130 for an explanation of these terms.)

1.1.3. Marking Requirements for Shipping Containers. – If two or more measure containers are placed in a shipping package, the crate or package shall show the number of measure containers and the quantity of contents of each.

(Added 1971) (Amended 1979, 1985, 1989, and 1991)

1.2. Bread. – Bread kept, offered, or exposed for sale, whether or not packaged or sliced, shall be sold by weight. The wrappers of bread that is sold and expressly represented at the time of sale as “stale bread” shall not be considered packages for labeling purposes.

(Added 1971) (Amended 1979, 1980, 1985, 1987, 1991, and 1992)

1.3. Butter, Oleomargarine, Margarine, Butter-Like, and/or Margarine-Like Spreads. – Shall be offered and exposed for sale and sold by weight. “Butter-like and/or margarine-like spreads” are those products that meet the Federal Standard of Identity for butter or margarine and oleomargarine, except that they contain less than 80 % fat and may contain other safe and suitable ingredients.

(Added 1971) (Amended 1979, 1985, 1986, and 1994)

1.4. Flour, Corn Meal, and Hominy Grits. – Wheat flour, whole wheat flour, graham flour, self-rising wheat flour, phosphated wheat flour, bromated flour, corn flour, corn meal, and hominy grits, whether enriched or not, shall be packaged, kept, offered, or exposed for sale and sold by weight.

(Amended 1994)

1.5. Meat, Poultry, Fish, and Seafood. ^[see Section 1.5. NOTE] – Shall be sold by weight, except that whole shellfish in the shell may be sold by weight, measure, and/or count. Shellfish are aquatic animals having a shell, such as mollusks (for example, scallops) or crustaceans (for example, lobster or shrimp).

- (a) When meat, poultry, fish, or seafood is kept, offered or exposed for sale from bulk (e.g., direct service counters) by the portion or piece according to a pre-determined fixed weight, the product identity and net weight shall be displayed, as well as the unit price at which it is offered for sale. This information shall appear on a label or sign immediately adjacent to the meat, poultry, fish, or seafood and must be presented in an easy-to-read type style and color. The font size of the net weight and unit price declaration shall be equal to or greater than the font size used for the product identity.
- (b) The unit price required under Sections 1.5.(a) shall be in terms of the unit price per kilogram or unit price per pound and not in common or decimal fractions of the permitted units. A supplemental declaration of a price per unit (i.e., price per ounce) is permitted.
- (c) Similar or competing commodities kept, offered, or exposed for sale from bulk in any single display or facility shall have unit prices posted or advertised in the same terms uniformly and consistently expressed (i.e., all in either prices per kilogram or prices per pound; not in differing units) to readily facilitate value comparison.

(Amended 1988 and 2016)

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1.5.1. In Combination with Other Foods. – When meat, poultry, fish, or seafood is combined with some other food element to form a distinctive food product, the quantity representation may be in terms of the total weight of the product or combination, and a quantity representation need not be made for each element provided a statement listing the ingredients in order of their predominance by weight must also appear on the label.

NOTE: Also see NCWM Policy, Interpretations, and Guidelines, Section 2.2.13. Declaration of Identity: Consumer Package (UPLR) and Section 1.5.1. In Combination with Other Foods (UMSCR).

(Amended 1989)

1.5.2. Clams, Mussels, Oysters, and Other Mollusks.

1.5.2.1. Whole Clams, Oysters, Mussels, or Other Mollusks in the Shell (fresh or frozen). – Shall be sold by weight (including the weight of the shell, but not including the liquid or ice packed with them), dry measure (e.g., bushel), and/or count. In addition, size designations may be provided.

1.5.2.2. Whole Clams, Oysters, Mussels, or Other Mollusks on the Half Shell (fresh, cooked, smoked, or frozen, with or without sauces or spices added). – Shall be sold by weight (excluding the weight of the shell) or by count. Size designations may also be provided.

(Added 1989)

1.5.2.3. Fresh Oysters Removed from the Shell. – Shall be sold by weight, drained weight, or by fluid volume. For oysters sold by weight or by volume, a maximum of 15 % free liquid by weight is permitted.

(Amended 1991)

1.5.2.4. Processed Clams, Mussels, Oysters, or Other Mollusks on the Half Shell (fresh or frozen). – Shall be sold by net weight excluding the weight of the shell. The term “processed” means removing the meat from the shell and chopping it, or cutting it or commingling it with other solid foods.

(Amended 1989)

1.5.2.5. Canned (heat-processed) Mussels, Clams, Oysters, or Other Mollusks. – Shall be sold by net weight. A maximum of 41 % free liquid by weight is permitted for canned oysters.

(Added 1986 and 1971) (Amended 1982, 1985, 1986, and 1989)

Section 1.5. NOTE: See Section 1.12. Ready-to-Eat Food for additional requirements.

1.6. Fluid Milk Products. – All fluid milk products, including, but not limited to milk, lowfat milk, skim milk, cultured milks, and cream, shall be sold in terms of fluid volume.

(Amended 1995)

1.7. Other Milk Products. – Cottage cheese, cottage cheese products, and other milk products that are solid, semi-solid, viscous, or a mixture of solid and liquid, as defined in the Pasteurized Milk Ordinance of the U.S. Public Health Service, as amended in 1965, shall be sold in terms of weight.

(Amended 1995)

1.7.1. Ice Cream, Ice Pops, and Similar Frozen Novelties. – Ice cream, ice pops, ice milk, frozen yogurt, and similar products shall be kept, offered, or exposed for sale or sold in terms of fluid volume.

(Amended 1995 and 2025)

1.7.2. Pelletized Ice Cream and Similar Pelletized Frozen Desserts. – A semi-solid food product manufactured at very low temperatures using a nitrogen process and consisting of small beads of varying sizes. Bits of inclusions (cookies, candy, etc.) that also vary in size and weight may be mixed with the pellets.

1.7.2.1. Method of Retail Sale. – Packaged pelletized ice cream or similar pelletized frozen desserts shall be kept, offered, or exposed for sale on the basis of net weight.

(Added 2010) (Amended 2011)

1.8. Pickles. – The declaration of net quantity of contents on pickles and pickle products, including relishes but excluding one or two whole pickles in a transparent wrapping, which may be declared by count, shall be expressed in terms of liquid measure. Sales of pickles from bulk may be by count.

(Added 1971)

1.9. Advertising and Price Computing of Bulk Food Commodities.

1.9.1. Total Price Computing. – The price of food commodities sold from bulk by weight shall be computed in terms of whole units of weight (i.e., price per kilogram, pound, gram, ounce, etc.) and not in common or decimal fractions.

(Amended 2016)

1.9.2. Unit Price Advertising. – The unit price of food commodities sold from bulk shall be advertised or displayed in terms of the price per whole units of weight units in kilograms or pounds only, not in common or decimal fractions of a kilogram or pound or in ounces. A supplemental declaration of a price per unit (i.e., price per ounce) is permitted in font size no larger than the whole unit price. This supplemental declaration may be expressed in common or decimal fractions or in ounces.

(Added 1976) (Amended 1985, 1987, 1991, and 2016)

1.9.3. Individual Piece Advertising. – The unit price and net weight of any food commodity offered or exposed for sale from bulk by the portion or piece, according to a pre-determined fixed weight, shall be advertised or displayed to include a declaration of the individual item price, a unit price in terms of kilogram or pound and net weight in terms of kilograms or pounds or decimal fractions, thereof. The font size of the net weight and the unit price declaration shall be equal to or greater than the font size used for the product identity.

(Added 2016)

NOTE: For specific requirements on Meat, Poultry, Fish and Seafood refer to Section 1.5. Meat, Poultry, Fish, and Seafood.

(Added 2016)

1.10. Generic Terms for Meat Cuts. – A declaration of identity for meat cuts shall be limited to generic terms, such as those listed in the Uniform Retail Meat Identity Standards.

The following abbreviations may be used:

Abbreviation	Identity
BAR B Q	Barbecue
BI	Bone In
BNLS	Boneless
DBLE	Double
LGE	Large
N.Y. (NY)	New York
PK	Pork
POT-RST	Pot Roast
RND	Round

Abbreviation	Identity
RST	Roast
SHLDR	Shoulder
SQ	Square
STK	Steak
TRMD	Trimmed

(Added 1976)

1.11. Sale of Meat by Carcass, Side, or Primal Cut. – The seller of a carcass, side, quarter, or primal cut on a gross or hanging weight basis shall provide to the buyer a written statement giving the following information at the times indicated:

(Amended 1985)

1.11.1. Prior to Delivery.

- (a) the name and address of the seller (firm);
- (b) the date of the contract;
- (c) the name and address of the buyer;
- (d) the total net weight (hanging weight) of the carcass, side, or primal cut prior to cutting or processing;
- (e) the USDA quality grade and yield grade of the meat to be supplied, if so represented;
- (f) the price per pound for each species (not including any inducements) and the total price of the sale order;
- (g) the estimated cutting loss on the order in terms of percentage and weight (e.g., 40 %, 72.5 kg [160 lb]);
- (h) a list by name and estimated count of each cut to be derived from each primal source;
- (i) additional costs, listed separately, for cutting, wrapping, freezing, and finance charges, if any; and
- (j) that the buyer may keep the cutting loss.

(Added 1985)

1.11.2. At the Time of Delivery.

- (a) the name and address of the buyer and seller;
- (b) the date of delivery;
- (c) the total net weight of the meat delivered;
- (d) a list, by name and count, of each cut derived from each primal cut; and
- (e) a separate indication of the quantity of any meat or other commodity(s) received by the purchaser as an inducement in connection with the purchase of the carcass, side, or primal cut.

(Added 1985)

1.11.3. Exemptions. – This subsection shall not apply to the sale of any carcass, side, quarter, or primal cut of meat that individually or collectively has a gross or hanging weight of 22.6 kg (50 lb) or less.

(Added 1985)

1.11.4. Right of Cancellation. – The buyer shall have the right to cancel any carcass, side, quarter, or primal cut meat contract until midnight of the third business day after the day on which the buyer executed the contract or after the day on which the seller provided the buyer with a fully executed copy of the contract, whichever is later.

(Added 1985 and 1977) (Amended 1980 and 1985)

1.12. Ready-to-Eat Food.

1.12.1. Definition. – Restaurant style food offered or exposed for sale, whether in restaurants, supermarkets, or similar food service establishments that is ready for immediate human consumption, though not necessarily on the premises where sold, and which does not require any cooking or heating preparation by the customer. Ready-to-eat food does not include sliced luncheon products, such as meat, poultry, or cheese when sold separately.

Some examples of ready-to-eat food items: (This list is not intended to be all inclusive.)

- servings of pasta, potato, or coleslaw;
- servings of salads, vegetables, or grains such as rice;
- pizzas, whole or sliced;
- meat/vegetable pockets/pies;
- tacos, fajitas, enchiladas, tostadas;
- cooked, whole chickens or turkeys;
- buckets, tubs, or individual pieces of cooked chicken or fish;
- cooked ribs by the slab or piece;
- stuffed clams, oysters, shrimp, and fish;
- cooked shrimp or crab cakes;
- slices of cake, pie, or quiche;
- donuts, bagels, or rolls for individual sale;
- cookies or brownies for individual sale;
- sandwiches, eggs, or spring rolls;
- servings of prepared chili or soup;
- stuffed peppers, tomatoes, and cabbage;
- knishes; and
- pickles.

NOTE: The sale of an individual piece of fresh fruit (like an apple, banana, or orange) is allowed by count.

(Added 2004) (Amended 2017)

1.12.2. Methods of Sale. – Ready-to-eat food sold from retail cases displaying product in bulk or in servings prepared on the premises may be sold by weight, measure, or count (i.e., by piece, portion, or serving). If pre-packaged, the product shall have the appropriate statement of quantity set forth in the current edition of NIST Handbook 130, Uniform Packaging and Labeling Regulation (UPLR).

(Amended 1993) (Amended 2017 and 2023)

1.13. Home Food Service Plan Sales.**1.13.1. Definitions.**

As used in this section, the following words and phrases shall have the following meanings:

- (a) **Home Food Service Plan.** – The offering for sale to a consumer, in the consumer’s home, any food item, or food item in combination with any nonfood item and/or services, whether or not a membership fee or similar charge is involved.
- (b) **Seller.** – Any person, partnership, corporation, or association, however organized, engaged in the sale of a home food service plan.
- (c) **Buyer.** – Both the actual and prospective purchaser, but does not include persons purchasing for resale.
- (d) **Contract.** – All of the collective written agreements subscribed by a buyer at the time of sale relating to the purchase of a home food service plan, except promissory notes or other financing agreements.
- (e) **Food Item.** – Each edible product sold as part of a home food service plan, including, but not limited to, each constituent part or kind of meat cut from a primal source, each kind of whole poultry or poultry part, seafood products, and other like products.
- (f) **Nonfood Item.** – Each inedible product sold as part of a home food service plan, including, but not limited to, paper products, health and beauty products, detergents, cleaners and disinfectants, rolls of wrapping, and like products. The term does not include food items and durable consumer goods such as appliances.
- (g) **Unit Price.** – The price of a food or nonfood item sold as part of a home food service plan, computed to the nearest tenth of 1 cent when less than 1 dollar, and to the nearest cent when 1 dollar or more. The unit price, exclusive of any service charge(s), shall be expressed in terms of the price per unit of weight, measure, or count set forth in the “Uniform Unit Pricing Regulation” in the current edition of NIST Handbook 130.
- (h) **Service Charge.** – The total price for any additional features, services, and processing associated with the purchase of a home food service plan, whether stated in terms of membership fees or otherwise.
- (i) **Primal Source.** – Refers to the following cuts:
 - (1) for beef, the primal sources are the round, flank, loin, rib, plate, brisket, chuck, and shank;
 - (2) for veal and lamb or mutton, the primal sources are the leg, flank, loin, rack (rib), and shoulder; and
 - (3) for pork, the primal sources are the belly, loin, ham, spareribs, shoulder, and jowl.

1.13.2. Contract and Disclosure Requirements.**1.13.2.1. At the Time of Sale.**

- (a) At the time of sale, the Seller shall provide the Buyer with a single document, referred to in this subsection as the “written agreement,” which shall clearly and conspicuously disclose the following:
 - (1) the name, address, and telephone number of the Seller and the name and address of the Buyer;
 - (2) the date of the contract;

- (3) the price of the food and nonfood items of the home food service plan;
 - (4) the service charge or the price of any service charges associated with the home food service plan;
 - (5) the total price of the home food service plan, including the price of the food and nonfood items, and the price of any service charge; and
 - (6) a statement that the Buyer shall have the right to cancel the home food service plan contract until midnight of the third business day after the date on which the Buyer executed the contract or after the day on which the Seller provided the Buyer with a fully executed copy of the contract, whichever is later, by giving written notice of cancellation to the Seller. Compliance with requirements of federal statutes, rules, or regulations governing form of notice of right of cancellation shall be deemed satisfactory notice of the requirements of this regulation.
- (b) In addition to the above disclosures required in the written agreement, the following disclosures are required to be given to the Buyer at the time of sale:
- (1) A written list of all food and nonfood items to be sold, which shall include:
 - i. the identity of each unit and, where applicable, the USDA quality grade of the item, if so graded; the primal source; and the brand or trade name;
 - ii. the quantity of each item sold;
 - iii. the estimated serving size by net weight of each piece of meat, poultry, and seafood item offered for sale under the home food service plan, provided, however, that such estimates shall not differ from the actual weight at the time of delivery by more than 5 % and the dollar value of the meat, poultry, and seafood items delivered is equal to or greater than that represented to the Buyer; and
 - iv. the net weight, measure, or count of all other food and nonfood items offered for sale.
 - (2) A current unit price list stating in dollars and cents the price per kilogram or pound or other appropriate unit of measure, and the total sale price of each item to be delivered. This price list shall clearly and conspicuously make reference to the fact of whether there are additional costs disclosed in the written agreement relating to any “service charges” associated with the purchase of the home food service plan.
 - (3) If a membership is sold, a written statement of all terms, conditions, benefits, and privileges applicable to the membership.
 - (4) If a service charge is included, a written statement specifically identifying the service(s) provided and the price(s) charged for them.

1.13.2.2. At the Time of Delivery.

- (a) At the time of delivery, the Seller shall provide a receipt, for signature by the Buyer, disclosing the following information:
- (1) the identity of the item and the net quantity of the contents in terms of either weight, measure, or count, as required by applicable law. The net weight of each food item delivered shall be within the limit specified in Section 1.13.2.1.b(i)(iii) Contract and Disclosure Requirements; and

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- (2) the unit price and total sales price of each food and nonfood item. The unit price shall be the same as that specified on the unit price list given to the Buyer at the time of sale.

1.13.3. Advertisement of Home Food Service Plans. – Any advertisement of a home food service plan which discloses item pricing information in accordance with the provisions of this section shall set forth, in a clear and conspicuous manner, whether there are any service charges or other additional costs associated with the purchase of the home food service plan.

(Added 1992)

1.14. Cannabis and Cannabis-Containing Products. – *Cannabis* is a genus of flowering plants in the family Cannabaceae, of which *Cannabis sativa*, *indica*, *ruderalis* are species and any hybridization thereof. This definition includes products that contain 0.3 percent or less of Total Delta-9 Tetrahydrocannabinol THC (also known as Hemp) and products that contain more than 0.3 percent of Total Delta-9 THC (also known as cannabis, marijuana, or marihuana).

1.14.1. Unit.

- (a) Volume – Products offered for sale in liquid form shall be sold by volume.
- (b) Weight – Products offered for sale in non-liquid form shall be sold by weight. These products may also have a supplemental declaration of count or measure.

1.14.2. Sale from Bulk.

- (a) When sold from bulk, all sales shall be based on net weight or net volume.
- (b) When liquids are offered for sale from bulk, the reference temperature for measurement shall be 20 °C (68 °F). Products shall be delivered at a temperature within ± 2 °C (5 °F). Artificially heating liquids to temperatures higher than the specified limits is prohibited.

1.14.3. Water Activity. – When unprocessed *Cannabis* is kept, offered, or exposed for sale, sold, bartered, or exchanged, or ownership transfers, the water activity shall be 0.60 (± 0.05) in accordance with latest version of ASTM D8197, Standard Specification for Maintaining Acceptable Water Activity (aw) Range (0.55 to 0.65) for Dry Cannabis Flower Intended for Human/Animal Use.

The procedure for determining the water activity in *Cannabis* flower can be found in the latest version of ASTM D8196 Standard Practice for Determination of Water Activity (aw) in Cannabis Flower.

(Added 2023)

Section 2. Non-Food Products [see Section 1.1. NOTE]

Unless otherwise specified or specifically permitted, the sale of any non-food product, whether sold from bulk or in packaged form, shall be only according to a unit of measure or weight that meets all of the following criteria:

- (1) Is recognized and defined by NIST as legal for use in commerce
- (2) Has been published in the “Federal Register”; and
- (3) The measurement values have metrological traceability (see Section 1.1. NOTE) to a national standard.

NOTE: Sale of a product or commodity according to count, where appropriate to be fully informative to facilitate value comparison, is permissible as a method of sale.

(Added 2019)

2.1. Advertising and Price Computing of Bulk Commodities. – The price of bulk commodities or commodities not in package form and sold by weight shall be advertised, displayed, and computed in terms of whole units of weight (i.e., grams, kilograms, pounds, ounces, etc.), and not in common or decimal fractions.

(Added 1989)

2.2. Fence Wire Products. – Rolls of fence wire products shall be sold by:

- (a) Gauge of wire.
- (b) Height in terms of inches or centimeters, if applicable.
- (c) Length in terms of rods, meters, or feet.

(Added 1979)

2.3. Coatings. – Asphalt paints, coatings, and plastics shall be sold in terms of liquid measure.

(Added 1971)

2.4. Fireplace and Stove Wood. – For the purpose of this regulation, this section shall apply to the sale of all wood, natural and processed, for use as fuel or flavoring.

(Amended 1999)

2.4.1. Definitions.

2.4.1.1. Fireplace and Stove Wood. – Any kindling, logs, boards, timbers, or other wood, natural or processed, split or not split, advertised, offered for sale, or sold for use as fuel.

(Amended 1991)

2.4.1.2. Cord. – The amount of wood that is contained in a space of 128 ft³ when the wood is ranked and well stowed. For the purpose of this regulation, “ranked and well stowed” shall be construed to mean that pieces of wood are placed in a line or row, with individual pieces touching and parallel to each other, and stacked in a compact manner.

2.4.1.3. Representation. – This shall be construed to mean any advertisement, offering, invoice, or the like that pertains to the sale of fireplace or stove wood.

2.4.1.4. Flavoring Chips. – Any kindling, logs, boards, timbers, or other natural or processed, split or unsplit wood that is advertised, offered for sale, or sold for flavoring smoked or barbequed foods.

(Added 1999)

2.4.2. Identity. – A representation may include a declaration of identity that indicates the species group (for example, 50 % hickory, 50 % miscellaneous softwood). Such a representation shall indicate, within 10 % accuracy, the percentages of each group.

2.4.3. Quantity. – Fireplace and stove wood shall be advertised, offered for sale, and sold only by measure, using the term “cord” and fractional parts of a cord or the cubic meter, except that:

- (a) **Packaged natural wood.** – Natural wood offered for sale in packaged form in quantities less than 0.45 m³ (1/8 cord or 16 ft³) shall display the quantity in terms of:

- (1) liters, including fractions or multiples of the liter. A net quantity of contents declaration, may also include a quantity in units of cubic foot or fractions or multiples of a cubic foot (i.e., cubic feet).

(Amended 2010, 2016, and 2022)

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(b) **Artificial compressed or processed products.** – Logs, bricks, or other shaped products greater than 15 cm (6 in) in any dimension shall be sold by weight plus count.
(Amended 2022)

(c) **Stove wood pellets or chips.** – Pellets or chips not greater than 15 cm (6 in) in any dimension shall be sold by weight. This requirement does not apply to flavoring chips.
(Amended 1976 and 1991)

(d) **Flavoring chips.** – Flavoring chips offered for sale in packaged form in quantities less than 0.45 m³ (1/8 cord or 16 ft³) shall display the quantity in terms of:

- (1) liters, including fractions or multiples of the liter. A net quantity of contents declaration may also include quantity in units of cubic foot or fractions or multiples of a cubic foot (i.e., cubic feet).
(Added 1998) (Amended 2010, 2016, and 2022)

NOTE: In determining the appropriate Method of Sale, a clear distinction must be made as to whether the wood is being sold primarily as fuel (some wood is sold as fuel but flavoring is a byproduct) or strictly as a wood flavoring.

(Note Added 2010)

(Amended 1976, 1991, 1998, 2010, 2016, and 2022)

2.4.4. Prohibition of Terms. – The terms “face cord,” “rack,” “pile,” “truckload,” or terms of similar import shall not be used when advertising, offering for sale, or selling wood for use as fuel.

2.4.5. Delivery Ticket or Sales Invoice. – A delivery ticket or sales invoice shall be presented by the seller to the purchaser whenever any non-packaged fireplace or stove wood is sold. The delivery ticket or sales invoice shall contain at least the following information:

- (a) the name and address of the vendor;
- (b) the name and address of the purchaser;
- (c) the date delivered;
- (d) the quantity delivered and the quantity upon which the price is based, if this differs from the delivered quantity;
- (e) the price of the amount delivered; and
- (f) the identity, in the most descriptive terms commercially practicable, including any quality representation made in connection with the sale.

(Added 1975)

2.5. Peat and Peat Moss. – Applies only with respect to organic matter of geological origin, excluding coal and lignite, originating principally from dead vegetative remains through the agency of water in the absence of air and occurring in a bog, swampland, or marsh, and containing an ash content not exceeding 25 % on a dry weight basis [dried in an oven at 105 °C (221 °F) until no further weight loss can be determined].

2.5.1. Declaration of Quantity. – The declaration of quantity of peat and peat moss shall be expressed in terms of weight units or in cubic measure units.

2.5.2. Units.

2.5.2.1. Weight. – Peat and peat moss sold in terms of weight shall be offered and exposed for sale only in kilograms and/or pounds.

2.5.2.2. Cubic Measure. – Peat and peat moss sold in terms of cubic measure shall be offered and exposed for sale only in liters and/or cubic feet. If the commodity is labeled in terms of compressed cubic measurement, the quantity declaration shall represent the quantity in the compressed state.

(Added 1971) (Amended 1975, 1979, 1983, and 1997)

2.6. Prefabricated Utility Buildings. – Shall be offered for retail sale on the basis of usable inside space as follows:

- (a) length, measured from inside surface of wall panels at the base;
- (b) width, measured from inside surface of wall panels at the base;
- (c) height, measured from the base to the top of the shortest wall panel.

Inside dimensions in SI units shall be declared to the nearest 0.01 meter; inside dimensions in U.S. customary units shall be declared to the nearest inch.

If total usable inside space is declared in a supplemental declaration, it shall be to the nearest cubic decimeter or cubic foot.

(Added 1975)

2.7. Roofing and Roofing Material. – Shall be sold by the square meter only if sold in SI units, by the square, or by the square foot only if sold in U.S. customary units.

(Amended 1979)

2.7.1. Definitions.

2.7.1.1. Square Meter. – The quantity of roofing or roofing material that, when applied according to the directions or instructions of the manufacturer, will cover one square meter exclusive of side laps or side joints.

(Added 1979)

2.7.1.2. Square. – The quantity of roofing or roofing material that, when applied according to directions or instructions of the manufacturer, will cover an area of 100 ft² exclusive of side laps or side joints, provided, in the case of roofing or roofing material of corrugated design, the side lap or side joint shall be one full corrugation.

2.7.1.3. Square Foot. – The quantity of roofing or roofing material that, when applied according to the directions or instructions of the manufacturer, will cover 1 ft² (144 in²) exclusive of side laps or side joints.

2.7.2. Declaration of Quantity. – When the declaration of quantity on a package of roofing or roofing material contains the term “square,” it shall include, plainly and conspicuously, a numerical definition of the term “square.”

Example:

“One square covers 100 ft² of roof area.”

2.7.2.1. Common Fractions. – The use of the common fraction one-third (1/3) is specifically authorized in the quantity statement of a package of roofing or roofing material when, and only when, used as the common fraction of the “square.”

2.7.2.2. Quantity Statement. – The primary declaration if in U.S. customary units shall only be in terms of squares or square feet, and if in metric units shall only be in terms of square meters. There is no prohibition against the use of supplementary quantity declarations, such as shingle dimensions, but in no case shall the

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weight of the material be stated or implied. However, the use of numerical descriptions for rolls of felt roofing material may continue to be used.
(Added 1971) (Amended 1979)

2.8. Sealants. – Caulking compounds, glazing compounds, and putty shall be sold in terms of liquid measure, except that rope caulk shall be sold by weight.

(Added 1971) (Amended 1981)

2.9. Sod and Turf.

2.9.1. Application. – For the purpose of this regulation, this section shall apply to all sod, including turf sod, turf plugs, and turf sprigs.

2.9.2. Definitions.

2.9.2.1. Sod. – Shall mean “turf sod,” “turf plugs,” or “turf sprigs” of a single kind or variety or a mixture of kinds and varieties.

2.9.2.2. Turf. – The live population of one or more kinds of grasses, legumes, or other plant species used for lawns, recreational use, soil erosion control, or other such purposes.

2.9.2.3. Turf plug. – A small section cut from live turf of those kinds of turf normally vegetatively propagated (such as zoysia grass) that when severed contain sufficient plant material to remain intact.

2.9.2.4. Turf sod. – A strip or section of live turf that when severed contains sufficient plant material to remain intact.

2.9.2.5. Turf sprig. – A live plant, stolon, crown, or section cut from stolonifera plants used as turf.

2.9.3. Quantity. – Sod shall be advertised, offered for sale, and sold by measure or by a combination of count and measure as prescribed by this subsection.

2.9.3.1. Turf sod. – Turf sod shall be advertised for sale and sold in terms of the square meter, square foot, or square yard, as appropriate.

(Amended 1979)

2.9.3.2. Turf plugs. – Turf plugs shall be advertised for sale and sold in terms of count, combined with a statement of the plug diameter.

2.9.3.3. Turf sprigs. – Turf sprigs shall be advertised for sale and sold in terms of the liter or bushel.

(Added 1976) (Amended 1979)

2.10. Softwood Lumber. – Applies to softwood boards, timbers, and dimension lumber that have been surfaced; to other products set forth in the latest version of the U.S. Department of Commerce, Voluntary Product Standard PS 20-20, “American Softwood Lumber Standard,” Tables 1 through 4; but shall not apply to rough lumber or lumber (other than products in the tables) remanufactured or joined so as to have changed the form or identity, such as individually assembled or packaged millwork items. “Nominal sizes” are customary dimensions to describe approximate, rather than actual, sizes of lumber. “Nominal sizes” were originally derived from the dimensions of rough lumber before surfacing and are always greater than the actual or minimum dressed dimensions; thus, a dry “2 × 4” is surfaced to the actual dimensions of 1 1/2 in × 3 1/2 in (38 mm × 89 mm). The requirements in Section 2.10.1. Definitions refer to actual sizes of lumber. Examples of nominal sizes and minimum dressed sizes for board and dimension lumber are shown in Table 1. Softwood Lumber Sizes. A complete listing of nominal size categories is available in the latest version of PS 20-20, “American Softwood Standard” in Tables 1 through 4.

(Amended 2016)

2.10.1. Definitions.

2.10.1.1. Dressed Lumber. – Lumber that has been surfaced by a machine (to attain smoothness of surface and uniformity of size) on one side (S1S), on two sides (S2S), one edge (S1E), two edges (S2E), or a combination of sides and edges (S1S1E, S1S2E, S2S1E, S4S).

(Amended 2016)

2.10.1.2. Boards. – Lumber 38 mm (1 1/2 in) or less in actual thickness and 38 mm (1 1/2 in) or more in actual width. Lumber less than 140 mm (5 1/2 in) in actual width may be classified as strips.

(Amended 2016)

2.10.1.3. Timbers. – Lumber 114 mm (4 1/2 in) or more in smallest dimension. Timbers may be designated as beams, stringers, posts, caps, sills, girders, or purlins.

2.10.1.4. Dimension Lumber. – Lumber from 38 mm (1 1/2 in) to, but not including, 114 mm (4 1/2 in) in actual thickness, and 38 mm (1 1/2 in) or more in actual width. Dimension lumber may be designated as framing, joists, planks, rafters, or studs.

2.10.1.5. Rough Lumber. – Lumber that has not been dressed, but that has been sawed, edged, and trimmed at least to the extent of showing saw marks, or other primary manufacturing marks in the wood, on the four longitudinal surfaces of each piece for its overall length.

(Amended 2016)

2.10.1.6. Matched Lumber. – Lumber that has been worked with a tongue on one edge of each piece and a groove on the opposite edge to provide a close tongue and groove joint by fitting two pieces together; when end-matched, the tongue and groove are worked in the ends also.

2.10.1.7. Patterned Lumber. – Lumber that is shaped to a pattern or a molded form, in addition to being dressed, matched, or shiplapped, or any combination of these workings.

2.10.1.8. Shiplapped Lumber. – Lumber that has been worked or rabbeted on both edges of each piece to provide a closelapped joint by fitting two pieces together.

2.10.1.9. Grade. – The commercial designation assigned to lumber meeting specifications established by a nationally recognized grade rule writing organization.

2.10.1.10. Species. – The commercial name assigned to a species of trees.

2.10.1.11. Species Group. – The commercial name assigned to two or more individual species having similar characteristics.

2.10.1.12. Representation. – A “representation” shall be construed to mean any advertisement, offering, invoice, or the like that pertains to the sale of lumber.

2.10.1.13. Minimum Dressed Sizes (width and thickness). – The standardized width and thickness at which lumber is dressed when manufactured in accordance with the latest edition of U.S. Department of Commerce Voluntary Product Standard PS 20-20, “American Softwood Lumber Standard,” and regional grading rules conforming to the latest version of PS 20-20. (See Table 1. Softwood Lumber Sizes containing examples of some minimum dressed sizes.)

(Amended 2016)

2.10.2. Identity. – Representations shall include a declaration of identity that specifies the grade or grades, species or species group, and whether the lumber is unseasoned (green) or dry.

2.10.3. Quantity. – Representations shall be in terms of:

- (a) the number of pieces;
- (b) the minimum dressed width and thickness or actual width and thickness, except that the use of nominal dimensions shall be allowed as long as:
 - (1) the term “nominal” or “nom” is also used; and
 - (2) the actual or minimum dressed sizes are prominently displayed to the customer either by means of a table or label.
- (c) either the length of individual pieces or the lineal footage.

(Amended 2016)

Table 1. Softwood Lumber Sizes

Examples of the minimum dressed sizes at the time of manufacture for both unseasoned (green) and dry lumber in the latest version of the U.S. Department of Commerce, Voluntary Product Standard PS 20-20.				
Product Classification (Nominal Size)	Minimum Dressed Sizes**			
	Unseasoned		Dry	
Inches	Inches	Millimeters	Inches	Millimeters
Board Lumber				
1 × 2	$\frac{25}{32} \times 1\frac{9}{16}$	20 × 40	$\frac{3}{4} \times 1\frac{1}{2}$	19 × 38
1 × 3	$\frac{25}{32} \times 2\frac{9}{16}$	20 × 65	$\frac{3}{4} \times 2\frac{1}{2}$	19 × 64
1 × 4	$\frac{25}{32} \times 3\frac{9}{16}$	20 × 90	$\frac{3}{4} \times 3\frac{1}{2}$	19 × 89
1 × 6	$\frac{25}{32} \times 5\frac{5}{8}$	20 × 143	$\frac{3}{4} \times 5\frac{1}{2}$	19 × 140
1 × 8	$\frac{25}{32} \times 7\frac{1}{2}$	20 × 190	$\frac{3}{4} \times 7\frac{1}{4}$	19 × 184
1 × 10	$\frac{25}{32} \times 9\frac{1}{2}$	20 × 241	$\frac{3}{4} \times 9\frac{1}{4}$	19 × 235
1 × 12	$\frac{25}{32} \times 11\frac{1}{2}$	20 × 292	$\frac{3}{4} \times 11\frac{1}{4}$	19 × 286
Surfaced Lumber*				
2 × 2	$1\frac{9}{16} \times 1\frac{9}{16}$	40 × 40	$1\frac{1}{2} \times 1\frac{1}{2}$	38 × 38
2 × 2½	$1\frac{9}{16} \times 2\frac{1}{16}$	40 × 52	$1\frac{1}{2} \times 2$	38 × 51
2 × 3	$1\frac{9}{16} \times 2\frac{9}{16}$	40 × 65	$1\frac{1}{2} \times 2\frac{1}{2}$	38 × 64
2 × 4	$1\frac{9}{16} \times 3\frac{9}{16}$	40 × 90	$1\frac{1}{2} \times 3\frac{1}{2}$	38 × 89
2 × 6	$1\frac{9}{16} \times 5\frac{5}{8}$	40 × 143	$1\frac{1}{2} \times 5\frac{1}{2}$	38 × 140
2 × 8	$1\frac{9}{16} \times 7\frac{1}{2}$	40 × 190	$1\frac{1}{2} \times 7\frac{1}{4}$	38 × 184
2 × 10	$1\frac{9}{16} \times 9\frac{1}{2}$	40 × 241	$1\frac{1}{2} \times 9\frac{1}{4}$	38 × 235
2 × 12	$1\frac{9}{16} \times 11\frac{1}{2}$	40 × 292	$1\frac{1}{2} \times 11\frac{1}{4}$	38 × 286
<p>*The dry thicknesses of nominal 3 in and 4 in lumber are 2 1/2 in (64 mm) and 3 1/2 in (89 mm); unseasoned thicknesses are 2 9/16 in (65 mm) and 3 9/16 (90 mm). Widths for these thicknesses are the same as shown above.</p> <p>**PS 20-20 defines dry lumber as being 19 % or less in moisture content and unseasoned lumber as being over 19 % moisture content. The size of lumber changes approximately 1 % for each 4 % change in moisture content. Lumber stabilizes at approximately 15 % moisture content under normal use conditions.</p>				

(Added 1971) (Amended 1990, 1993, and 2016)

2.11. Carpet. – Anyone who sells carpet shall provide the purchaser with written statements at the time of sale giving the following information:

- The name and address of the manufacturer.
- The style name and roll number of the carpet.
- The generic name of the fiber and the type of backing material.

- (d) The amount delivered (exact size shipped).
 - (e) The price per square meter if sold in SI units, or the price per square foot if sold in U.S. customary units, and the total price.
- (Added 1977) (Amended 1979 and 1999)

2.12. Hardwood Lumber - Retail Sales. – The requirements of this section apply to retail sales of hardwood lumber, but not too hardwood flooring, molding, or other pre-formed products.

2.12.1. Definitions.

2.12.1.1. Board Foot. – The U.S. customary unit of volume measurement for hardwood lumber. A board foot is the volume of a board 1 ft long, 1 ft wide, and 1 in thick or its equivalent (144 in³ of wood).

2.12.1.2. Surfaced Lumber. – Lumber that has been surfaced for the purpose of attaining smoothness of surface and uniformity of size.

2.12.1.3. Kiln Drying. – A specialized process used to minimize dimensional changes in service. Hardwood lumber used for most products must have moisture removed by placing it in a drying kiln with controlled humidity and heat for a period of time determined by the initial and the final moisture content, the species, and the thickness.

2.12.1.4. Surface Measure. – A rounded area measurement for hardwood lumber. The surface measure shall be determined by multiplying the full width of the piece in inches and fractions by the standard length (see Section 2.12.1.7. Standard Lengths) in feet, dividing by 12, and rounding up or down to the nearest whole square foot. (Fractions less than or equal to one-half square foot are rounded down and those greater than one-half square foot are rounded up.)

2.12.1.5. Species. – The commercial name assigned to a species of trees.

2.12.1.6. Species Group. – The commercial name assigned to two or more individual species having similar characteristics.

2.12.1.7. Standard Lengths. – 4 ft, 5 ft, 6 ft, 7 ft, 8 ft, 9 ft, 10 ft, 11 ft, 12 ft, 13 ft, 14 ft, 15 ft, or 16 feet. Fractional lengths are rounded down to the next lower standard length (for example, if a board is 6 ft 8 in long, its length is rounded down to 6 ft).

2.12.1.8. Stock Widths. – Special items manufactured to predetermined widths, normally for retail sale.

2.12.2. Identity. – Representations shall include a declaration of identity that specifies the species or species group.

2.12.3. Surfaced (S4S) Lumber Manufactured to Stock Widths.

2.12.3.1. Quantity. – Representations shall be in terms of one of the following:

- (a) by linear measure when surfaced width and thickness are stated; or
- (b) by count when length and surfaced width and thickness are stated; or
- (c) by surface measure (square feet) when a thickness is stated.

2.12.3.2. Representations. – The use of nominal dimensions shall be allowed if the table of Minimum Surfaced Sizes for Kiln Dried Hardwood Lumber or the actual dimensions are prominently displayed to the

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customer, and the term “nominal” or “nom” is used in conjunction with any representation of nominal dimensions.

2.12.3.3. Minimum surfaced sizes for Kiln Dried Lumber (width and thickness). – Table 2. Minimum Surfaced Sizes for Kiln Dried Hardwood Lumber shows the minimum sizes for the stock widths listed. This table includes dimensions for thicknesses of 1 in and 2 in thick stock lumber. Hardwood lumber is also manufactured in thicknesses of 1 1/4 in (1 in surfaced) and 1 1/2 in (1 3/16 in surfaced). For other thicknesses, use the nominal and minimum widths from the table. For example: a board with the nominal dimensions of 1 1/4 in × 4 in would have minimum thickness of 1 in and minimum width of 3 1/2 in.

Table 2. Minimum Surfaced Sizes for Kiln Dried Hardwood Lumber

SI Units for Thickness and Width	Thickness and Width in Inches	
Minimum Sizes in Millimeters	Nominal Sizes	Minimum Sizes
38 × 89	2 × 4	1 1/2 × 3 1/2
38 × 140	2 × 6	1 1/2 × 5 1/2
38 × 184	2 × 8	1 1/2 × 7 1/4
38 × 235	2 × 10	1 1/2 × 9 1/4
38 × 286	2 × 12	1 1/2 × 11 1/4
19 × 19	1 × 1	3/4 × 3/4
19 × 38	1 × 2	3/4 × 1 1/2
19 × 63	1 × 3	3/4 × 2 1/2
19 × 89	1 × 4	3/4 × 3 1/2
19 × 140	1 × 6	3/4 × 5 1/2
19 × 184	1 × 8	3/4 × 7 1/4
19 × 235	1 × 10	3/4 × 9 1/4
19 × 286	1 × 12	3/4 × 11 1/4

The dry thickness of nominal 1 1/2 in lumber is 1 3/16 in. The dry thickness of nominal 1 1/4 in lumber is 1 in. Sizes are shown in inches and millimeters. Minimum sizes in millimeters are calculated by multiplying the size in inches by 25.4 and rounding to the nearest millimeter. The rule for rounding is: round up for numbers greater than 0.50 mm and round down for numbers less than or equal to 0.50 mm. In case of a dispute on size measurements, the inch measurement takes precedence. Nominal and minimum widths for these thicknesses are shown above. The SI equivalents for 1 in and 1 3/16 in lumber are 25.4 mm and 30.1 mm, respectively.

2.12.4. Random Width Lumber.

2.12.4.1. Sales of Random Width Hardwood Lumber. – Sales of random width hardware lumber measured after kiln drying shall be quoted, invoiced, and delivered on the basis of net board footage with no addition of footage for kiln drying shrinkage or surfacing. Sales of hardwood lumber measured and sold prior to kiln drying or surfacing shall be quoted, invoiced, and delivered on the basis of net board footage before kiln drying or surfacing. If the lumber is to be kiln dried or surfaced at the request of the purchaser, the kiln drying or surfacing charge shall be clearly shown and identified on the quotation and invoice.

(Amended 1993)

2.13. Polyethylene Products.

2.13.1. Consumer and Non-Consumer Products. – Offered and exposed for sale shall be sold in the terms given in Section 2.13.1.1. Sheeting and Film.

2.13.1.1. Sheeting and Film. – Consumer products shall include quantity statements in both SI and U.S. customary units.

Consumer products:

- (a) length and width (in SI and U.S. customary units)
- (b) area (in square meters and square feet)
- (c) thickness (in micrometers and mils*)
- (d) weight (in SI and U.S. customary units)

Non-Consumer Products:

- (a) length and width (in SI or U.S. customary units)
 - (b) area (in square meters or square feet)
 - (c) thickness (in micrometers or mils*)
 - (d) weight (in SI or U.S. customary units)
- (Added 1982) (Amended 1979, 1993, and 1998)

(* 1 mil = 0.001 in = 25.4 micrometers (μm). 1 micrometer = 0.000 039 37 in.)
(Amended 1993)

2.13.2. Consumer Products. – At retail shall be sold in the terms given in Section 2.13.2.1. Food Wrap, Section 2.13.2.2. Lawn and Trash Bags, and Section 2.13.2.3. Food and Sandwich Bags.

2.13.2.1. Food Wrap.

- (a) length and width
- (b) area in square meters and square feet
(Amended 1979)

2.13.2.2. Lawn and Trash Bags.

- (a) count
- (b) dimensions
- (c) thickness in micrometers and mils
(Amended 1993)
- (d) capacity [see Section 2.13.2. NOTE]

2.13.2.3. Food and Sandwich Bags. – The capacity statement does not apply to fold-over sandwich bags.

- (a) count
- (b) dimensions
- (c) capacity [see *Section 2.13.2. NOTE*]

Section 2.13.2. NOTE: See Section 10.8.2. Capacity of the Uniform Packaging and Labeling Regulation.

2.13.3. Non-Consumer Products. – Shall be offered and exposed for sale in the terms given in Section 2.13.3.1. Bags. (Package shall be labeled in SI or U.S. customary units and may include both units.)
(Amended 1998)

2.13.3.1. Bags.

- (a) count
- (b) dimensions
- (c) thickness in micrometers or mils
- (d) weight
- (e) capacity [see *Section 2.13.2. NOTE*]

2.13.4. Declaration of Weight. – The labeled statement of weight for polyethylene sheeting and film products under Sections 2.13.1.1. Sheeting and Film, and 2.13.3.1. Bags, shall be equal to or greater than the weight calculated by using the formula below.

- (a) For values, less than 453.6 kg (1000 lb), the final value shall be calculated to at least four digits and declared to three digits, truncating the final digits as calculated (e.g., a calculated value of 943.1 g (2.079 lb) is truncated to 943 g (2.07 lb), a calculated value of 14.92 kg (32.89 lb) is truncated to 14.9 kg (32.8 lb), a calculated value of 124.4 kg (274.2 lb) is truncated to 124 kg (274 lb).
(Added 2018)
- (b) For values of 453.6 kg (1000 lb) or more, the final value shall be calculated to at least five digits and declared to four digits, truncating the final digits as calculated (e.g., a calculated value of 570.44 kg (1257.6 lb) is truncated to 570.4 kg (1257 lb).
(Added 2018)

For SI dimensions:

$M = T \times A \times D / 1000$, where:

- M = net mass in kilograms
- T = nominal thickness in centimeters
- A = nominal length in centimeters times the nominal width [see *Section 2.13.4. NOTE*] in centimeters
- D = minimum density in grams per cubic centimeter as defined by the latest version of ASTM Standard D1505, “Standard Test Method for Density of Plastics by the Density-Gradient Technique” and the latest version of ASTM Standard D883, “Standards Terminology Relating to Plastics.”

For the purpose of this regulation, the minimum density (D) for linear low density polyethylene plastics (LLDPE) shall be 0.92 g/cm³ (when D is not known).

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For the purpose of this regulation, the minimum density (D) for linear medium density polyethylene plastics (LMDPE) shall be 0.93 g/cm^3 (when D is not known).

For the purpose of this regulation, the minimum density (D) for high density polyethylene plastics (HDPE) shall be 0.94 g/cm^3 (when D is not known).

For U.S. customary dimensions:

$W = T \times A \times 0.03613 \times D$, where:

- W = net weight in pounds
- T = nominal thickness in inches;
- A = nominal length in inches times nominal width ^[see Section 2.13.4 NOTE] in inches
- D = minimum density in grams per cubic centimeter as defined by the latest version of ASTM Standard D1505, “Standard Test Method for Density of Plastics by the Density-Gradient Technique” and the latest version of ASTM Standard D883, “Standards Terminology Relating to Plastics.”

0.03613 is a factor for converting g/cm^3 to lb/in^3

For the purpose of this regulation, the minimum density (D) for linear low-density polyethylene plastics (LLDPE) shall be 0.92 g/cm^3 (when D is not known).

For the purpose of this regulation, the minimum density (D) for linear medium density polyethylene plastics (LMDPE) shall be 0.93 g/cm^3 (when D is not known).

For the purpose of this regulation, the minimum density (D) for high-density polyethylene plastics (HDPE) shall be 0.94 g/cm^3 (when D is not known).

(Added 1977) (Amended 1980, 1982, 1987, 1989, 1990, 1993, 2012, and 2018)

Section 2.13.4. NOTE: The nominal width for bags in this calculation is twice the labeled width.

2.14. Insulation.**2.14.1. Packaged Loose-Fill Insulation Except Cellulose.** – The label shall declare:

- (a) the type of insulation and the net weight with no qualifying statement; and
 - (b) the minimum thickness, maximum net coverage area, and minimum weight per square foot at R values of 11, 19, and 22. This information shall also be supplied for any additional R values listed.
- (Amended 1990)

2.14.2. Packaged Loose-Fill Cellulose Insulation. – The label shall declare:

- (a) the type of insulation and the net weight with no qualifying statement; and
 - (b) the minimum thickness, maximum net coverage area, number of bags per 1000 ft^2 , and minimum weight per square foot at R values of 13, 19, 24, 32, and 40. This information shall also be supplied for any additional R values listed.
- (Amended 1990)

2.14.3. Batt and Blanket Insulation. – The principal display panel of packaged batt or blanket insulation shall declare the square feet of insulation in the package and the length and width of the batt or blanket. In addition, R value and thickness shall be declared on the package.

2.14.4. Installed Insulation. – Installed insulation must be accompanied by a contract or receipt. For all insulation except loose-fill and aluminum foil, the receipt must show the coverage area, thickness, and R value of the insulation installed. For loose-fill, the receipt must show the coverage area, thickness, and R value of the insulation, plus the number of bags used. For aluminum foil, the receipt must show the number and thickness of the air spaces, the direction of heat flow, and R value. The receipt must be dated and signed by the installer.

Example: This is to certify that the insulation has been installed in conformance with the requirements indicated by the manufacturer to provide a value of R 19 using 31.5 bags of insulation to cover 1500 ft² area. Signed and dated _____.

(Added 1979) (Amended 1983)

2.15. Solid Fuel Products. – Anthracite, semi anthracite, bituminous, semi-bituminous or lignite coal, and any other natural, manufactured, or patented fuel, not in liquid or gaseous form, except fireplace and stove wood, shall be offered, exposed for sale, or sold by net weight when in package form.

(Added 1979)

2.16. Compressed or Liquefied Gases in Refillable Cylinders.

2.16.1. Application. – This section does not apply to disposable cylinders of compressed or liquefied gases.

2.16.2. Net Contents. – The net contents shall be expressed in terms of volume or weight. For liquefied petroleum gas (LPG), see Section 2.21. Liquefied Petroleum Gas for permitted units of measure for declarations for net quantity of contents. A standard cubic foot of gas is defined as a cubic foot at a temperature of 21 °C (70 °F) and a pressure of 101.35 kilopascals (14.696 psia), except for liquefied petroleum gas as stated in Section 2.21. Liquefied Petroleum Gas.

2.16.3. Cylinder Labeling. – Whenever cylinders are used for the sale of compressed or liquefied gases by weight, or are filled by weight and converted to volume, the following shall apply:

2.16.3.1. Tare Weights.

- (a) **Stamped or Stenciled Tare Weight.** – For safety purposes, the tare weight shall be legibly and permanently stamped or stenciled on the cylinder. All tare weight values shall be preceded by the letters “TW” or the words “tare weight.” The tare weight shall include the weight of the cylinder (including paint), valve, and other permanent attachments. The weight of a protective cap shall not be included in tare or gross weights. General requirements for specification cylinders, **49 C.F.R. § 178.35** requires the maker of cylinders to retain test reports verifying the cylinder tare weight accuracy.
- (b) **Tare Weight for Purposes of Determining the Net Contents.** – The tare weight used in the determination of the final net contents may be either:
 - (1) the stamped or stenciled tare weight; or
 - (2) the actual tare determined at the time of filling the cylinder. If the actual tare is determined at the time of filling the cylinder, it must be legibly marked on the cylinder.
- (c) **Allowable difference.** – If the stamped or stenciled tare is used to determine the net contents of the cylinder, the allowable difference between the actual tare weight and the stamped (or stenciled) tare weight, or the tare weight on a tag attached to the cylinder for a new or used cylinder, shall be within:
 - (1) 1/2 % for tare weights of 9 kg (20 lb) or less; or
 - (2) 1/4 % for tare weights of more than 9 kg (20 lb).

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NOTE: Failure of a cylinder tare weight to be within the required allowable difference is considered a Method of Sale violation. The cylinder shall be removed from use until the tare weight is corrected.

- (d) **Average requirement.** – When used to determine the net contents of cylinders, the stamped or stenciled tare weights of cylinders at a single place of business found to be in error predominantly in a direction favorable to the seller and near the allowable difference limit shall be considered to be not in conformance with these requirements.
- (e) **Tare Determination.** – The stamped or stenciled tare weight shall be used for purposes of verifying the net contents unless the actual tare weight is determined, then the actual tare weight shall be used for purposes of net content verification. The removable protective cap and label are not included in the stamped or stenciled tare but must be included in the total tare determinations.

2.16.3.2. Water Capacity By Weight. – The water capacity by weight of the cylinder, used to determine the maximum filling level of a cylinder, must be marked on the cylinder at the time of manufacture. The water capacity shall be abbreviated WC. A cylinder with a water capacity of 11.34 kg (25 lb) or less, shall be allowed an allowable difference of – 1 % and no plus allowance. A cylinder exceeding 11.34 kg (25 lb) water capacity, shall have an allowable difference of – 0.5 % and no plus allowance.

(Added 2022)

2.16.3.3. Acetylene Gas Cylinder Tare Weights. – Acetone in the cylinder shall be included as part of the tare weight.

2.16.3.4. Acetylene Gas Cylinder Volumes. – The volumes of acetylene shall be determined from the product weight using NIST Standard Reference Database 23 “Reference Fluid Thermodynamic and Transport Properties Database” (REFPROP) (see www.nist.gov/srd/refprop) (*Note:* Weights and measures officials should contact the NIST Office of Weights and Measures at owm@nist.gov for access to the database.) and supplemented by additional procedures or those developed using 70 °F (21 °C) and 14.7 ft³ (101.35 kPa) per pound at 1 atmosphere as conversion factors.

2.16.3.5. Compressed Gases such as Oxygen, Argon, Nitrogen, Helium, and Hydrogen. – The volumes of compressed gases such as oxygen, argon, nitrogen, helium, or hydrogen shall be determined using NIST Standard Reference Database 23 “Reference Fluid Thermodynamic and Transport Properties Database” (REFPROP) (see www.nist.gov/srd/refprop)

Note: Weights and measures officials should contact the NIST Office of Weights and Measures at owm@nist.gov for access to the database.) and supplemented by additional procedures.

(Added 1981) (Amended 1990 and 2022)

2.17. Precious Metals.

2.17.1. Definition.

2.17.1.1. Precious Metals. – Gold, silver, palladium, platinum, or any item composed partly or completely of these metals or their alloys and in which the market value of the metal in the item is principally the gold, silver, palladium, or platinum component.

(Amended 2017)

2.17.2. Quantity. – The unit of measure and the method of sale of precious metals, if the price is based in part or wholly on a weight determination, shall be either troy weight or SI units. To facilitate price comparison and provide information allowing consumers to make an informed decision a chart must be prominently displayed and present in proximity to the purchasing scale being used for the transaction. This chart requirement is not intended to apply to pure precious metal bullion traded or commodity markets such as stock exchanges and the like rather it is only intended to apply to precious metals purchased by weight by

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businesses from the general public through non-retail transactions. The chart must be clearly visible to the seller and contain at a minimum the following information.

- (a) A table of weights indicating grams and troy ounces.
- (b) The percentages as noted in Table 3. Percentage of Precious Metals Contained in Common Mixtures found in the marketplace.
- (c) If buying precious metals based on weight, the chart shall also state the price per unit weight on which the buying price is based.
- (d) If buying precious metals based on weight in the following formula:

$$(\text{Item Weight} \times \text{Percentage in Decimal Form of Precious Metal Contained in the Item}) \times (\text{Price per Weight Being Paid}) = \text{Potential Monetary Offer.}$$

NOTE: The item weight and price per unit weight must be in the same units.

- (e) When the measurement of method of sale is expressed in SI units of mass, a conversion chart to troy units must also be present on the chart.

Table 3. Percentage of Precious Metal Contained in Common Mixtures

Gold	10 karat	41.7 %
	14 karat	58.3 %
	18 karat	75.0 %
	24 karat	100 %
Silver	Sterling	92.5 %
Platinum	900 Platinum	90 %
	950 Platinum	95 %
Palladium	950 Palladium	95 %

(Added 1982) (Amended 2017)

2.18. Mulch.

2.18.1. Definition.

2.18.1.1. Mulch. – Any product or material except peat or peat moss (see Section 2.5. Peat and Peat Moss) that is advertised, offered for sale, or sold for primary use as a horticultural, aboveground dressing, for decoration, moisture control, weed control, erosion control, temperature control, or other similar purposes.

(Added 1987)

2.18.2. Quantity. – All mulch shall be sold, offered, or exposed for sale in terms of volume measure in SI units in terms of the cubic meter or liter or in U.S. customary units in terms of the cubic yard or cubic foot.

(Added 1983) (Amended 1987)

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2.19. Kerosene (Kerosine). – All kerosene kept, offered, exposed for sale, or sold shall be identified as such and will include, with the word kerosene, an indication of its compliance with the latest version of the standard specification ASTM Standard D3699, “Standard Specification for Kerosine.”

Example:

1K Kerosene; Kerosene - 2K.

(Added 1983)

2.19.1. Retail Sale from Bulk. – All kerosene kept, offered, or exposed for sale and sold from bulk at retail shall be in terms of the gallon or liter.

(Added 2012)

2.20. Gasoline and Gasoline Oxygenate Blends.

2.20.1. Method of Retail Sale. – Type of Oxygenate must be Disclosed. – All automotive gasoline or automotive gasoline-oxygenate blends kept, offered, or exposed for sale, or sold at retail containing at least 1.5 mass percent oxygen shall be identified as “with” or “containing” (or similar wording) the predominant oxygenate in the engine fuel. For example, the label may read “contains ethanol” or “with MTBE.” The oxygenate contributing the largest mass percent oxygen to the blend shall be considered the predominant oxygenate. Where mixtures of only ethers are present, the retailer may post the predominant oxygenate followed by the phrase “or other ethers” or alternatively post the phrase “contains MTBE or other ethers.” In addition, gasoline-methanol blend fuels containing more than 0.3 % by volume methanol shall be identified as “with” or “containing” methanol. This information shall be posted on the upper 50 % of the dispenser front panel in a position clear and conspicuous from the driver’s position in a type at least 12.7 mm (1/2 in) in height, 1.5 mm (1/16 in) stroke (width of type).

(Amended 1996)

2.20.2. Product Transfer Document (PTD) Requirements. – The retailer shall be provided information that complies with PTD requirements for gasoline, gasoline additives, and gasoline regulated blendstocks **40 C.F.R. § 1090.1110**, at the time of delivery of the fuel, on product transfer documents such as an invoice, bill of lading, shipping paper, or other documentation. Additional declarations may be required for specific fuels:

- (a) For fuels containing multiple oxygenates or oxygenates other than ethanol a declaration of the predominant oxygenate or combination of oxygenates present in concentrations sufficient to yield an oxygenate content of at least 1.0 % by volume in the fuel. Where mixtures of only ethers are present, the fuel supplier may identify either the predominant oxygenate in the fuel (i.e., the oxygenate contributing the largest mass percent oxygen) or alternatively, use the phrase “contains MTBE or other ethers.”
- (b) For fuels containing more than 0.3 % by volume methanol a declaration shall be identified as “with” or “containing” methanol.

(Added 1984) (Amended 1985, 1986, 1991, 1996, 2014, 2022, and 2023)

2.20.3. EPA Labeling Requirements. – Retailers and wholesale purchaser-consumers of gasoline shall comply with the EPA pump labeling requirements for gasoline containing greater than 10 volume percent (v%) up to 15 volume percent (v%) ethanol (E15) under E15 labeling provisions, **40 C.F.R. § 1090.1510**. (For additional information, refer to Section 2.30.2. FTC Labeling Requirements.)

(Added 2018) (Amended 2022)

2.21. Liquefied Petroleum Gas.

2.21.1. Method of Sale. – All liquefied petroleum gas, including, but not limited to propane, butane, and mixtures thereof, shall be kept, offered, exposed for sale, or sold by:

- (a) **Weight** – by the kilogram or pound; or
- (b) **Gaseous Volume** – by the metered cubic meter of vapor (defined as 1 m³ at 15 °C); or metered cubic foot of vapor (defined as 1 ft³ at 60 °F) [see *Section 2.21. NOTE*]; or
- (c) **Liquid Volume** – by the liter (defined as 1 liter at 15 °C) or the gallon (defined as 231 in³ at 60 °F).

2.21.2. Metered Sales by Liquid Volume. – All metered sales by liquid volume shall be accomplished using metering systems as follows:

- (a) Sales using metering systems with a maximum rated capacity greater than 20 gal/min shall be accomplished using a metering system that automatically compensates for the effects of temperature.
- (b) Sales using metering systems with a maximum rated capacity equal to or less than 20 gal/min that were placed into service after January 1, 2026, shall be accomplished by use of a metering system that automatically compensates for the effects of temperature.
- (c) Effective January 1, 2034, all metered sales (through all capacities of metering devices, regardless of installation and service date) shall be accomplished by use of a metering system that automatically compensates for temperature.

Section 2.21. NOTE: Sources: ANSI B109.1 (2000), For Diaphragm-Type Gas Displacement Meters (Under 500 Cubic Feet Per Hour Capacity and NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.

(Added 1986) (Amended 2023 and 2025)

2.22. Liquid Oxygen Used for Respiration.

- (a) If sold by weight, liquid oxygen must be weighed on an appropriate, sealed commercial scale. A pressure or other type of gauge may not be used to determine weight.
- (b) A delivery ticket or sales invoice shall be provided and shall contain at least the following information:
 - (1) date delivered;
 - (2) name and address of vendor;
 - (3) name and address of the purchaser;
 - (4) if sold by weight:
 - i. weight of cylinder before filling;
 - ii. weight of cylinder after filling; and
 - iii. the net weight of liquid oxygen delivered;
 - (5) if sold by measure:
 - i. measurement and any computation used to arrive at the net quantity of liquid oxygen delivered;
 - (6) the unit price;
 - (7) the total computed price; and

- (8) weigher's or measurer's signature.

(Added 1989)

2.23. Animal Bedding.

(Amended 2016)

2.23.1. Definitions.

2.23.1.1. Compressed Animal Bedding. – Means the volume of the bedding was reduced under pressure during the packaging process.

(Added 2016)

2.23.1.2. Useable Volume. – The volume of the product that can be recovered from a package by the consumer after it is unwrapped and, if necessary, uncompressed.

(Added 2016)

2.23.2. Method of Sale.

- (a) Packaged animal bedding of all kinds, except for baled straw, shall be advertised, labeled, offered for sale and sold by volume in either a compressed or an uncompressed package. A package of compressed animal bedding shall be advertised, labeled, offered, and exposed for sale and sold on the basis of the "Useable Volume." If unit pricing is provided for use by retail customers to make a value comparison, it shall be in terms of the price per liter.
- (b) A quantity declaration shall be in terms of the largest whole unit of the milliliter, liter, or cubic meter. A declaration may also include the quantity in terms of largest whole unit of the cubic inch, cubic foot, or cubic yard only. The terms "Useable Volume" must appear in the quantity declaration on a package of compressed animal bedding.

Examples for Uncompressed Animal Bedding:

Volume 41 Liters (1.4 Cubic Feet)

Volume 125 Liters

Examples for Compressed Animal Bedding:

Useable Volume 1.4 Cubic Feet (41 Liters)

Useable Volume 27.9 Liters (1700 Cubic Inches)

Useable Volume 113 L (4 Cubic Feet)

Useable Volume 226 L

- (c) The display of a net or gross weight, pre-compression volume, compressed volume, or supplementary dry measure quantities (e.g., dry pint, dry quart, or bushel) anywhere on the package is prohibited.

(Added 2016) (Amended 2017)

2.23.3. Exemption - Non-Consumer Packages Sold to Laboratory Animal Research Industry. – Packaged animal bedding consisting of granular corncobs and other dry (8 % or less moisture), pelleted, and/or non-compressible bedding materials that are sold to commercial (non-retail) end users in the laboratory animal research industry (government, medical, university, preclinical, pharmaceutical, research, biotech, and research institutions) may be sold on the basis of weight.

(Added 2010)

2.24. Wiping Cloths. – Wiping cloths shall be sold by net weight or by count plus size of wiping cloths. When sold by count plus size, and the wiping cloths are of assorted sizes, the term "irregular dimensions" and the minimum size of such cloths must be declared. The gross weight may not be printed on any package, either consumer or non-consumer.

(Added 1991)

2.25. Baler Twine. – Baler twine shall be sold on the basis of length in meters or feet, and net mass or weight by kilograms or pounds.

(Added 1992)

2.26. Potpourri. – Potpourri shall be sold as follows:

- (a) Potpourri packaged in advance of sale shall be sold by weight, except when sold in a decorative container or sachet, which may be sold by count.
- (b) Potpourri sold from bulk shall be sold by weight or by dry volume.

(Added 1992)

2.27. Retail Sales of Natural Gas Sold as a Vehicle Fuel.

2.27.1. Definitions.

2.27.1.1. Compressed Natural Gas (CNG). – A gaseous fuel composed primarily of methane that is suitable for compression and dispensing into a fuel storage container(s) for use as an engine fuel.

(Amended 2016)

2.27.1.2. Gasoline Gallon Equivalent (GGE). – Gasoline gallon equivalent (GGE) means 2.567 kg (5.660 lb) of compressed natural gas.

(Amended 2016)

2.27.1.3. Diesel Gallon Equivalent (DGE). – Diesel gallon equivalent means 6.384 lb of compressed natural gas or 6.059 lb of liquefied natural gas.

(Added 2016)

2.27.1.4. Liquefied Natural Gas (LNG). – Natural gas, which is predominantly methane, that has been liquefied at -162°C (-260°F) at 14.696 psia and stored in insulated cryogenic fuel storage tanks for use as an engine fuel.

(Added 2016)

2.27.2. Method of Retail Sale and Dispenser Labeling.

2.27.2.1. Method of Retail Sale for Compressed Natural Gas. – All compressed natural gas kept, offered, or exposed for sale and sold at retail as a vehicle fuel shall be measured in terms of mass, and indicated in the gasoline gallon equivalent (GGE), diesel gallon equivalent (DGE) units, or mass.

(Amended 2016)

2.27.2.2. Dispenser Labeling Compressed Natural Gas. – All retail compressed natural gas dispensers shall be labeled with the equivalent conversion factor in terms of pounds (lb). The label shall be permanently and conspicuously displayed on the face of the dispenser and shall have the statement “1 Gasoline Gallon Equivalent (GGE) means 5.660 lb of Compressed Natural Gas” or “1 Diesel Gallon Equivalent (DGE) means 6.384 lb of Compressed Natural Gas” consistent with the method of sale used.

(Amended 2016)

2.27.2.3. Method of Retail Sale for Liquefied Natural Gas. – All liquefied natural gas kept, offered, or exposed for sale and sold at retail as a vehicle fuel shall be measured in mass and indicated in diesel gallon equivalent (DGE) units or mass.

(Added 2016)

2.27.2.4. Dispenser Labeling of Retail Liquefied Natural Gas. – All retail liquefied natural gas dispensers shall be labeled with the equivalent conversion factor in terms of pounds (lb). The label shall be permanently and conspicuously displayed on the face of the dispenser and shall have the statement “1 Diesel Gallon Equivalent (DGE) means 6.059 lb of Liquefied Natural Gas.”

(Added 2016)

2.28. Communication Paper.

2.28.1. Definitions.

2.28.1.1. Communication Paper. – Packaged bond, mimeo, spirit duplicator, xerographic, and other papers, including cut-sized office paper and computer paper.

2.28.1.2. Basis Weight. – As used in this regulation for labeling means the grade, category, or identity of the paper determined according to the latest version of ASTM D646, “Standard Test Method for Mass Per Unit Area of Paper and Paperboard of Aramid Papers (Basis Weight).” Basis weight is used as a standard of identity and is not considered a net weight declaration.

2.28.2. Method of Retail Sale and Labeling.

2.28.2.1. Method of Retail Sale. – All packaged communication paper kept, offered, or exposed for sale and sold at retail shall be sold in terms of sheet length and width and count.

2.28.2.2. Labeling. – Communication paper in package form shall bear a label that includes:

- (a) a declaration of quantity, in terms of sheet length and width and count, in the lower 30 % of the principal display panel.
- (b) a declaration of identity including the basis weight, and may include such other information as grain direction, color, brightness, printed lines, and hole punch information. Due to the variation in basis weight in manufacturing and analysis, the basis weight declared on the label shall correspond to the basis weight declared by the original manufacturer.

(Added 1994)

2.29. Sand, Rock, Gravel, Stone, Paving Stone, and Similar Materials, when Sold in Bulk. – All sand, rock, gravel, stone, paving stone, and similar materials kept, offered, or exposed for sale in bulk must be sold as follows:

- (a) Top soil, fill dirt, aggregate or chipped rock, sand (including concrete and mortar sand), decomposed granite, landscape type rock, and cinders must be sold by the cubic meter or cubic yard or by weight.
- (b) Flagstone must be sold by weight.
- (c) Dimensional cut stone must be sold by the square meter, square foot, or weight.
- (d) This requirement does not apply to single stones with engraving such as gravestones, natural or manmade artwork, landscape boulders, and pre-cast uniform size blocks.

(Added 2000)

2.30. Ethanol Flex Fuel.

2.30.1. How to Identify Ethanol Flex Fuel. – Ethanol flex fuel shall be identified as “Ethanol Flex Fuel or EXX Flex Fuel.”

2.30.2. FTC Labeling Requirements. – Ethanol flex fuel shall be identified and labeled in accordance with the Federal Trade Commission (FTC) Automotive Fuel Ratings, Certification and Posting Rule, **16 C.F.R. § 306**, as amended. (For additional information, see Section 2.20.3. EPA Labeling Requirements.)

(Added 2007) (Amended 2014 and 2018)

2.31. Retail Sales of Hydrogen Fuel (H).

2.31.1. Definitions for Hydrogen Fuel. – A fuel composed of molecular hydrogen intended for consumption in a surface vehicle or electricity production device with an internal combustion engine or fuel cell.

(Amended 2012)

2.31.2. Method of Retail Sale and Dispenser Labeling. – All hydrogen fuel kept, offered, or exposed for sale and sold at retail shall be in mass units in terms of the kilogram. The symbol for hydrogen vehicle fuel shall be the capital letter “H” (the word Hydrogen may also be used).

2.31.3. Retail Dispenser Labeling.

- (a) A computing dispenser must display the unit price in whole cents on the basis of price per kilogram.
- (b) The service pressure(s) of the dispenser must be conspicuously shown on the user interface in bar or the SI unit of pascal (Pa) (e.g., MPa).
- (c) The product identity must be shown in a conspicuous location on the dispenser.
- (d) National Fire Protection Association (NFPA) labeling requirements also apply.
- (e) Hydrogen shall be labeled in accordance with Labeling Requirements for Alternative Fuels and Alternative Fueled Vehicles, **16 C.F.R. § 309**.

2.31.4. Street Sign Prices and Advertisements.

- (a) The unit price must be in terms of price per kilogram in whole cents (e.g., \$3.49 per kg, not \$3.499 per kg).
- (b) The sign or advertisement must include the service pressure (expressed in megapascals) at which the dispenser(s) delivers hydrogen fuel (e.g., H35 or H70).

(Added 2010)

2.32. Oil.

2.32.1. Labeling of Vehicle Engine (Motor) Oil. – Vehicle engine (motor) oil shall be labeled.

2.32.1.1. Viscosity. – The label on any vehicle engine (motor) oil container, receptacle, dispenser, or storage tank, and any invoice or receipt from service on an engine that includes the installation of vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank, shall contain the viscosity grade classification preceded by the letters “SAE” in accordance with SAE International’s latest version of SAE J300, “Engine Oil Viscosity Classification.”

NOTE: If an invoice or receipt from service on an engine has limited room for identifying the viscosity, brand, and service category, then abbreviated versions of each may be used on the invoice or receipt and the letters “SAE” may be omitted from the viscosity classification.

(Note Added 2014)

(Amended 2014)

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2.32.1.2. Brand. – The label on any vehicle engine (motor) oil container and the invoice or receipt from service on an engine that includes the installation of bulk vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank shall contain the name, brand, trademark, or trade name of the vehicle engine (motor) oil.

(Amended 2014)

2.32.1.3. Engine Service Category. – The label on any vehicle engine (motor) oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of bulk vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank shall contain the engine service category, or categories, displayed in letters not less than 3.18 mm (1/8 in) in height, as defined by the latest version of SAE J183, “Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”),” API Publication 1509, “Engine Oil Licensing and Certification System,” European Automobile Manufacturers Association (ACEA), “European Oil Sequences,” or other Vehicle or Engine Manufacturer standards as approved in Section 2.33.1.3.1. Vehicle or Engine Manufacturer Standard.

(Amended 2014)

2.32.1.3.1. Vehicle or Engine Manufacturer Standard. – The label on any vehicle engine (motor) oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank shall identify the specific vehicle or engine manufacturer standard, or standards, met in letters not less than 3.18 mm (1/8 in) in height. If the vehicle (motor) oil only meets a vehicle or engine manufacturer standard, the label must clearly identify that the oil is only intended for use where specifically recommended by the vehicle or engine manufacturer.

(Added 2014)

2.32.1.3.2. Inactive or Obsolete Service Categories. – Whenever any vehicle engine (motor) oil in a container, receptacle, dispenser, storage tank, or in bulk does not meet an active API service category as defined by the latest version of SAE J183, “Engine Oil Performance and Engine Service Classification (Other than “Energy Conserving”),” API Publication 1509, “Engine Oil Licensing and Certification System,” European Automobile Manufacturers Association (ACEA), “European Oil Sequences,” or other Vehicle or Engine Manufacturer Standards as approved in Section 2.33.1.3.1., Vehicle Or Engine Manufacturer Standard the front or forward facing-label of such vehicle engine (motor) oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of bulk vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank shall bear the plainly visible, cautionary statement set forth in the latest version of SAE J183, Appendix A. Whenever any vehicle engine (motor) oil is declared obsolete by a vehicle or engine manufacturer, the front or forward-facing label of such vehicle engine (motor) oil container, receptacle, dispenser, or storage tank and the invoice or receipt from service on an engine that includes the installation of bulk vehicle engine (motor) oil dispensed from a receptacle, dispenser, or storage tank shall bear the plainly visible, cautionary statement required by the vehicle or engine manufacturer.

(Amended 2014 and 2021)

2.32.1.4. Tank Trucks or Rail Cars. – Tank trucks, rail cars, and other types of delivery trucks that are used to deliver bulk vehicle engine (motor) oil are not required to display the SAE viscosity grade and service category or categories on such tank trucks, rail cars, and other types of delivery trucks. In lieu of such display requirements, the documentation defined in Section 2.33.1.5. Documentation shall be readily available for inspection.

(Amended 2013, 2014, and 2021)

2.32.1.5. Documentation. – When the engine (motor) oil is sold in bulk, an invoice, bill of lading, shipping paper, or other documentation must accompany each delivery. This document must identify the quantity of bulk engine (motor) oil delivered as defined in Sections 2.33.1.1. Viscosity, grade as defined by SAE J300, “Engine Oil Viscosity Classification,” 2.33.1.2. Brand; 2.33.1.3. Engine Service Category; the name and

address of the seller and buyer; and the date and time of the sale. For inactive or obsolete service categories, the documentation shall also bear the plainly visible cautionary statement as required in Section

2.33.1.3.2. Inactive or Obsolete Service Categories. Documentation must be retained at the retail establishment for a period of not less than one year.

(Added 2013) (Amended 2014 and 2021)

(Added 2012) (Amended 2013, 2014, and 2021)

2.33. Retail Sales of Electricity Sold as a Vehicle Fuel.

2.33.1. Definitions.

2.33.1.1 Electricity Sold as Vehicle Fuel. – Electrical energy transferred to and/or stored onboard an electric vehicle primarily for the purpose of propulsion.

2.33.1.2. Electric Vehicle Supply Equipment (EVSE). – The conductors, including the ungrounded, grounded, and equipment grounding conductors; the electric vehicle connectors; attachment plugs; and all other fittings, devices, power outlets, or apparatuses installed specifically for the purpose of measuring, delivering, and computing the price of electrical energy delivered to the electric vehicle.

2.33.1.3. Fixed Service. – Service that continuously provides the nominal power that is possible with the equipment as it is installed.

2.33.1.4. Variable Service. – Service that may be controlled resulting in periods of reduced, and/or interrupted transfer of electrical energy.

2.33.1.5. Nominal Power. – Refers to the “intended” or “named” or “stated” as opposed to “actual” rate of transfer of electrical energy (i.e., power).

2.33.2. Method of Sale. – All electrical energy kept, offered, or exposed for sale and sold at retail as a vehicle fuel shall be in units in terms of the kilowatt-hour (kWh). In addition to the fee assessed for the quantity of electrical energy sold, fees may be assessed for other services; such fees may be based on time measurement and/or a fixed fee.

(Amended 2023)

2.33.3. Retail Electric Vehicle Supply Equipment (EVSE) Labeling.

(a) A computing EVSE shall display the unit price in whole cents (e.g., \$0.12) or tenths of one cent (e.g., \$0.119) on the basis of price per kilowatt-hour (kWh). In cases where the electrical energy is unlimited or free of charge, this fact shall be clearly indicated in place of the unit price.

(b) For fixed service applications, the following information shall be conspicuously displayed or posted on the face of the device:

(1) the level of EV service expressed as the nominal power transfer (i.e., nominal rate of electrical energy transfer), and

(2) the type of electrical energy transfer (e.g., AC, DC, wireless).

(c) For variable service applications, the following information shall be conspicuously displayed or posted on the face of the device:

(1) the type of delivery (i.e., variable);

- (2) the minimum and maximum power transfer that can occur during a transaction, including whether service can be reduced to zero;
- (3) the condition under which variations in electrical energy transfer will occur; and
- (4) the type of electrical energy transfer (e.g., AC, DC, wireless).
- (d) Where fees will be assessed for other services in direct connection with the fueling of the vehicle, such as fees based on time measurement and/or a fixed fee, the additional fees shall be displayed.
- (e) The EVSE shall be labeled in accordance with Labeling Requirements for Alternative Fuels and Alternative Fueled Vehicles, **16 C.F.R. § 309**.
- (f) The EVSE shall be listed and labeled in accordance with the National Electric Code® (NEC) NFPA 70, Article 625 Electric Vehicle Charging Systems (www.nfpa.org).

2.33.4. Street Sign Prices and Other Advertisements. – Where electrical energy unit price information is presented on street signs or in advertising other than on EVSE:

- (a) The electrical energy unit price shall be in terms of price per kilowatt-hour (kWh) in whole cents (e.g., \$0.12) or tenths of one cent (e.g., \$0.119). In cases where the electrical energy is unlimited or free of charge, this fact shall be clearly indicated in place of the unit price.
- (b) In cases where more than one electrical energy unit price may apply over the duration of a single transaction to sales to the general public, the terms and conditions that will determine each unit price and when each unit price will apply shall be clearly displayed.
- (c) For fixed service applications, the following information shall be conspicuously displayed or posted:
 - (1) the level of EV service expressed as the nominal power transfer (i.e., nominal rate of electrical energy transfer), and
 - (2) the type of electrical energy transfer (e.g., AC, DC, wireless).
- (d) For variable service applications, the following information shall be conspicuously displayed or posted:
 - (1) the type of delivery (i.e., variable);
 - (2) the minimum and maximum power transfer that can occur during a transaction, including whether service can be reduced to zero;
 - (3) the conditions under which variations in electrical energy transfer will occur; and
 - (4) the type of electrical energy transfer (e.g., AC, DC, wireless).

Where fees will be assessed for other services in direct connection with the fueling of the vehicle, such as fees based on time measurement and/or a fixed fee, the additional fees shall be included on all street signs or other advertising.

(Amended 2023)

(Added 2013)

2.34. Diesel Exhaust Fluid (DEF).

2.34.1. Definition.

2.34.1.1. Diesel Exhaust Fluid (DEF). – A preparation of aqueous urea $[(\text{NH}_2)_2\text{CO}]$, containing 32.5 % by mass of technically-pure urea in high-purity water with quality characteristics defined by the latest version of ISO 22241, “Diesel engines - NOx reduction agent AUS 32.”

2.34.2. Labeling of Diesel Exhaust Fluid (DEF). – DEF shall be labeled.

2.34.2.1. Retail Dispenser Labeling. – A label shall be clearly and conspicuously placed on the front panel of the Diesel Exhaust Fluid dispenser stating “for operation of selective catalytic reduction (SCR) converters in motor vehicles with diesel engines.”

2.34.2.2. Documentation for Retailers of Bulk Product. – A DEF supplier shall provide, at the time of delivery of the bulk shipment of DEF, identification of the fluid’s origin including the name of the fluid manufacturer, the brand name, trade name, or trademark, and a statement identifying the fluid as DEF conforming to specifications given in the latest version of ISO 22241, “Diesel engines - NOx reduction agent AUS 32.” This information shall be provided by the supplier on an invoice, bill of lading, shipping paper, or other document.

2.34.2.3. Labeling of Packaged Product. – Any diesel exhaust fluid retail package shall bear a label that includes the name of the fluid manufacturer, the brand name, trade name, or trademark, a statement identifying the fluid as DEF conforming to specifications given in the latest version of ISO 22241 “Diesel engines - NOx reduction agent AUS 32,” and the statement, “It is recommended to store DEF between – 5 °C to 30 °C (23 °F to 86 °F).”

2.34.2.4. Documentation for Bulk Deliveries. – A carrier that transports or accepts for transportation any bulk shipment by tank truck, freight container, cargo tank, railcar, or any other vehicle used to transport or deliver bulk quantities of DEF shall, at the time of delivery of the DEF, provide identification of the fluid’s origin including the name of the fluid manufacturer, the brand name, trade name, or trademark, and a statement identifying the fluid as DEF conforming to specifications given in the latest version of ISO 22241, “Diesel engines - NOx reduction agent AUS 32.” This information shall be provided to the recipient on an invoice, bill of lading, shipping paper, or other document.

(Added 2014)

2.35. Transmission Fluid.

2.35.1. Products for Use in Lubricating Transmissions. – Transmission fluids shall meet the original equipment manufacturer’s requirements for those transmissions or have demonstrated performance claims to be suitable for use in those transmissions. Where a fluid can be licensed against an original equipment manufacturer’s specification, evidence of current licensing by the marketer is acceptable documentation of performance against the specification. In the absence of a license from the original equipment manufacturer, adherence to the original equipment manufacturer’s recommended requirements shall be assessed after testing per relevant methods available to the lubricants industry and the state regulatory agency. Suitability for use claims shall be based upon appropriate field, bench, and/or transmission rig testing. Any manufacturer of a transmission fluid making suitable-for-use claims shall provide, upon request by a duly authorized representative of the Director, credible documentation of such claims. If the product performance claims published by a blender and/or marketer are based on the claim(s) of one or more additive suppliers, documentation of the claims may be requested in confidence by a duly authorized representative of the Director. Supporting data may be supplied directly to the Director’s office by the additive supplier(s).

2.35.1.1. Conformance. – Conformance of a fluid per Section 2.36.1. Products for Use in Lubricating Transmissions does not absolve the obligations of a fluid licensee with respect to the licensing original equipment manufacturer or the original equipment manufacturer’s licensing agent(s), where relevant.

2.35.1.2. Transmission Fluid Additives. – Any material offered for sale or sold as an additive to transmission fluids shall be compatible with the transmission fluid to which it is added, and shall meet all performance claims as stated on the label or published on any website referenced by the label. Any

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manufacturer of any such product sold in this state shall provide, upon request by a duly authorized representative of the Director, documentation of any claims made on their product label or published on any website referenced by the label.

2.35.2. Labeling and Identification of Transmission Fluid. – Transmission fluid shall be labeled or identified as described below.

2.35.2.1. Container Labeling. – The label on a container of transmission fluid shall not contain any information that is false or misleading. Containers include bottles, cans, multi-quart or liter containers, pails, kegs, drums, and intermediate bulk containers (IBCs). In addition, each container of transmission fluid shall be labeled with the following:

- (a) the brand name;
- (b) the name and place of business of the manufacturer, packer, seller, or distributor;
- (c) the words “Transmission Fluid,” which may be incorporated into a more specific description of transmission type such as “Automatic Transmission Fluid” or “Continuously Variable Transmission Fluid”;
- (d) the primary performance claim or claims met by the fluid and reference to where any supplemental claims may be viewed (for example, website reference). Performance claims include but are not limited to those set by original equipment manufacturers and standards setting organizations such as SAE and JASO and are acknowledged by reference; and
- (e) an accurate statement of the quantity of the contents in terms of liquid measure.

2.35.2.2. Identification on Documentation. – Transmission fluid sold in bulk shall be identified on the manufacturer, packer, seller, or distributor invoice, bill of lading, shipping paper, or other documentation with the information listed below:

- (a) the brand name;
- (b) the name and place of business of the manufacturer, packer, seller, or distributor;
- (c) the words “Transmission Fluid,” which may be incorporated into a more specific description of transmission type such as “Automatic Transmission Fluid” or “Continuously Variable Transmission Fluid”;
- (d) the primary performance claim or claims met by the fluid or reference to where these claims may be viewed (for example, website reference). Performance claims include but are not limited to those set by original equipment manufacturers and standards setting organizations such as SAE and JASO and are acknowledged by reference; and
- (e) an accurate statement of the quantity of the contents in terms of liquid measure.

2.35.2.3. Identification on Service Provider Documentation. – Transmission fluid installed from a bulk tank at time of transmission service shall be identified on the customer invoice with the information listed below:

- (a) the brand name;
- (b) the name and place of business of the service provider;

- (c) the words “Transmission Fluid,” which may be incorporated into a more specific description of transmission type such as “Automatic Transmission Fluid” or “Continuously Variable Transmission Fluid”;
- (d) the primary performance claim or claims met by the fluid or reference to where these claims may be viewed (for example, website reference). Performance claims include but are not limited to those set by original equipment manufacturers and standards setting organizations such as SAE and JASO and are acknowledged by reference; and
- (e) an accurate statement of the quantity of the contents in terms of liquid measure.

2.35.2.4. Bulk Delivery. – When the transmission fluid is sold in bulk, an invoice, bill of lading, shipping paper, or other documentation must accompany each delivery. This document must identify the fluid as defined in Section 2.36.2.2. Identification on Documentation.

2.35.2.5. Storage Tank Labeling. – Each storage tank of transmission fluid shall be labeled with the following:

- (a) the brand name;
- (b) the primary performance claim or claims met by the fluid or reference to where these claims may be viewed (for example, website reference). Performance claims include but are not limited to those set by original equipment manufacturers and standards-setting organizations such as SAE and JASO and are acknowledged by reference.

2.35.3. Documentation of Claims Made Upon Product Label. – Any manufacturer, packer, or distributor of any product subject to this article and sold in this state shall provide, upon request of duly authorized representatives of the Director, credible documentation of any claim made upon their product label, including claims made on any website referenced by said label. If the product performance claims published by a blender and/or marketer are based on the claim(s) of one or more additive suppliers, documentation of the claims may be requested in confidence by a duly authorized representative of the Director. Supporting data may be supplied directly to the Director’s office by the additive supplier(s).

(Added 2017)

2.36. Pet Treats or Chews. – Digestive chews, rawhides, bones, biscuits, antlers or similar type products shall be sold by weight.

(Effective July 18, 2019. Enforceable January 1, 2022)

(Added 2018) (Amended 2019)

2.37. Non-Utility Transactions of Electrical Energy (Other than Vehicle Fueling Applications). – This applies to non-utility sales of electricity; that is, transactions of electrical energy by other than a utility where the transaction is based in whole or in part on measured quantities of energy delivered.

This section does not apply to:

- (a) Electrical energy sold in vehicle fueling applications as defined in Section 2.34. Retail Sales of Electricity Sold as a Vehicle Fuel.
- (b) Transactions not subject to weights and measures authority.

2.37.1. Definitions.

2.37.1.1. Utility. – In this regulation, an entity not subject to weights and measures authority as defined by law or regulation, such as a public utility or municipality or electric cooperative.

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2.37.1.2. Electricity Metering System. – An electricity metering system comprises of components functioning together to measure and register active energy, apparent energy and/or power factor. An electricity metering system may measure alternating current (AC) or direct current (DC) energy.

2.37.1.3. Demand. – The average rate at which a particular integrated quantity is being supplied to the load. Generally, it is indicated, recorded, or computed as the average obtained over a specified time interval. Demand is expressed in kilowatts (kW), kilovolt-amperes (kVA), kilovars (kvar), or other suitable units.

2.37.1.4. Power Factor (PF). – The ratio of the “active power” to “apparent power”, in an AC circuit. It describes the efficient use of available power.

2.37.2. Method of Sale. – All electrical energy offered for sale and sold based on the electrical energy transfer through the electric meter shall be in units specified below.

- (a) Active Energy: megajoules (MJ) or kilowatt-hours (kWh)
- (b) Apparent Energy: kilovolt-ampere hours (kVAh)
- (c) Demand: kilowatts (kW) or kilovolt-amperes (kVA)

In addition to the fees assessed for the quantity of electrical energy sold, where permitted, fees may also be assessed for other services, such as taxes and/or fixed fees.

- (a) a “power factor (PF)” and
- (b) other services related to the sale of electrical energy, such as taxes and/or fixed fees.

2.37.3. Unit Price. – The electrical energy unit price shall be in terms of price per unit of measure and in U.S. currency.

(Added 2019)

2.38. Tractor Hydraulic Fluid.

2.38.1. Products for Use in Lubricating Tractors. – Tractor hydraulic fluids shall meet at least one current and/or verifiable original equipment manufacturer’s specifications for respective tractors. A specification is deemed verifiable if all necessary bench and laboratory tests are available to verify the fluid’s ability to pass those requirements set out by the original equipment manufacturer. A list of current and verifiable original equipment manufacturer’s specifications is located on the NCWM website (www.ncwm.com). Where a fluid can be licensed against an original equipment manufacturer’s specification, evidence of current licensing by the marketer is acceptable documentation of performance against the specification. In the absence of a license from the original equipment manufacturer, adherence to the original equipment manufacturer’s specifications shall be assessed after testing per relevant methods available to the lubricants industry and the regulatory agency. Suitability for use claims shall be based upon appropriate field, bench, and/or rig testing. Any manufacturer of a tractor hydraulic fluid making suitable for use claims shall provide, upon request by a duly authorized representative of the Director, credible documentation of such claims. If the product performance claims published by a blender and/or marketer are based on the claim(s) of one or more additive suppliers, documentation of the claims shall be provided upon request to a duly authorized representative of the Director.

Supporting data shall, upon request, be supplied directly to the Director’s office by the additive supplier(s).

(Amended 2021)

2.38.1.1. Conformance. – Conformance of a fluid per Section 2.38.1. Products for Use in Lubricating Tractors does not absolve the obligations of a fluid licensee with respect to the licensing original equipment manufacturer or the original equipment manufacturer’s licensing agent(s), where relevant.

2.38.1.2. Tractor Hydraulic Fluid Additives. – Any material offered for sale or sold as an additive to tractor hydraulic fluids shall be compatible with the tractor hydraulic fluid to which it is added and shall meet all performance claims as stated on the label or published on any website referenced by the label. Any manufacturer of any such product sold shall provide, upon request by a duly authorized representative of the Director, documentation of any claims made on their product label or published on any website referenced by the label.

2.38.2. Labeling and Identification of Tractor Hydraulic Fluid. – Tractor hydraulic fluids shall be labeled or identified as described below.

2.38.2.1. Container Labeling. – The label on a container of tractor hydraulic fluid shall not contain any information that is false or misleading. Containers include bottles, cans, multi-quart or liter containers, pails, kegs, drums, and intermediate bulk containers (IBCs). In addition, each container of tractor hydraulic fluid shall be labeled with the following:

- (a) the brand name;
- (b) the name and place of business of the manufacturer, packer, seller, or distributor;
- (c) the words “Tractor Hydraulic Fluid,” which may include words such as “Hydraulic Fluid for Agricultural Applications” or “Universal Tractor Transmission Oil”;
- (d) the primary claim or claims met by the fluid and reference to where any supplemental claims may be viewed (e.g., website reference). Performance claims are those set by original equipment manufacturers;
- (e) any obsolete equipment manufacturer specifications shall be clearly identified as “obsolete” and accompanied by the following cautionary statement on the principal display panel in accordance with the Uniform Packaging and Labeling Regulation, Section 8. Prominence and Placement: Consumer Packages and Section 9. Prominence and Placement: Non-Consumer Packages.

Caution: Some of the specifications are no longer deemed active by the original equipment manufacturer. Significant harm to the transmission, hydraulic system, seals, final drive or axles is possible when using this product in applications in which it is not intended.

The above cautionary statement is not required if the fluid claims to meet current original equipment manufacturer’s specifications and refers to thereby preceding specifications; and

- (f) an accurate statement of the quantity of the contents in terms of liquid measure.
(Amended 2021)

2.38.2.2. Identification on Documentation. – Tractor hydraulic fluid sold in bulk shall be identified on the manufacturer, packer, seller, or distributor invoice, bill of lading, shipping paper, or other documentation with the information listed below:

- (a) the brand name;
- (b) the name and place of business of the manufacturer, packer, seller, or distributor;
- (c) the words “Tractor Hydraulic Fluid,” which may include words such as “Hydraulic Fluid for Agricultural Applications” or “Universal Tractor Transmission Oil”;
- (d) the primary claim or claims met by the fluid and reference to where any supplemental claims may be viewed (e.g., website reference). Performance claims are those set by original equipment manufacturers;

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- (e) any obsolete equipment manufacturer specifications shall be clearly identified as “obsolete” and accompanied by the following cautionary statement on the documentation in a clear and conspicuous manner.

Caution: Some of the specifications are no longer deemed active by the original equipment manufacturer. Significant harm to the transmission, hydraulic system, seals, final drive or axles is possible when using in applications in which it is not intended.

The above cautionary statement is not required if the fluid claims to meet current original equipment manufacturer’s specifications and refers to thereby preceding specifications; and

- (f) an accurate statement of the quantity of the contents in terms of liquid measure.
(Amended 2021)

2.38.2.3. Identification on Service Provider Documentation. – Tractor hydraulic fluid installed from a bulk tank at time of service shall be identified on the customer invoice with the information listed below:

- (a) the brand name;
- (b) the name and place of business of the service provider;
- (c) the words “Tractor Hydraulic Fluid,” which may include words such as “Hydraulic Fluid for Agricultural Applications” or “Universal Tractor Transmission Oil”;
- (d) the primary claim or claims met by the fluid and reference to where any supplemental claims may be viewed (e.g., website reference). Performance claims are those set by original equipment manufacturers;
- (e) any obsolete equipment manufacturer specifications shall be clearly identified as “obsolete” and accompanied by the following cautionary statement on the customer invoice in a clear and conspicuous manner.

Caution: Some of the specifications are no longer deemed active by the original equipment manufacturer. Significant harm to the transmission, hydraulic system, seals, final drive or axles is possible when using in applications in which it is not intended.

The above cautionary statement is not required if the fluid claims to meet current original equipment manufacturer’s specifications and refers to thereby preceding specifications; and

- (f) an accurate statement of the quantity of the contents in terms of liquid measure.
(Amended 2021)

2.38.2.4. Bulk Delivery. – When the tractor hydraulic fluid is sold in bulk, an invoice, bill of lading, shipping paper, or other documentation must accompany each delivery. This document must identify the fluid as defined in Section 2.38.2.2. Identification on Documentation.

2.38.2.5. Storage Tank Labeling. – Each storage tank of tractor hydraulic fluid shall be labeled with the following:

- (a) the brand name; and
- (b) the primary performance claim or claims met by the fluid or reference to where these claims may be viewed (for example, website reference). Performance claims are those set by original equipment manufacturers
(Amended 2021)

2.38.3. Documentation of Claims Made Upon Product Label. – Any manufacturer, packer, or distributor of any product subject to this article and sold shall provide, upon request of duly authorized representatives of the Director, credible documentation of any claim made upon their product label, including claims made on any website referenced by said label. If the product performance claims published by a blender and/or marketer are based on the claim(s) of one or more additive suppliers, documentation of the claims shall be provided upon request to a duly authorized representative of the Director. Supporting data shall, upon request, be supplied directly to the Director’s office by the additive supplier(s).

(Added 2019) (Amended 2021)

2.39. Diesel Fuel. – Shall meet the following requirements, based on the biodiesel concentration of the fuel:

- (a) Diesel fuel that contains less than or equal to 5 % by volume biodiesel shall meet the latest version of ASTM D975, “Standard Specifications for Diesel Fuels” and shall be sold as diesel fuel.
- (b) Diesel fuel that contains biodiesel in concentrations greater than or equal to 6 % by volume and less than or equal to 20 % by volume shall meet the latest version of ASTM D7467, “Standard Specifications for Diesel Fuel Oil, Biodiesel Blend (B6 to B20).”
(Amended 2024)
- (c) Diesel fuel that contains greater than or equal to 21 % by volume biodiesel shall be a blend of fuel from (a) or (b) and biodiesel meeting the latest version of ASTM D6751, “Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels.”
(Amended 2024) (Added 2024)
- (c) Only fuel additive registered with the U.S. EPA may be used to additize diesel fuel.
(Amended 2024) (Added 2024)

2.39.1. Labeling of Retail Dispensers.

2.39.1.1. FTC Automotive Fuel Rating. – Diesel fuel shall be labeled with its automotive fuel rating in accordance with Automotive Fuel Ratings, Certification and Posting Rule 16 C.F.R. 306.

2.39.1.2. Biodiesel Concentrations of 21 % or Greater. - When diesel fuel that contains biodiesel concentrations greater than or equal to 21 % by volume is offered by sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states “Consult Vehicle Manufacturer Fuel Recommendations.” The lettering of this legend shall not be less than 6 mm (1/4 in) in height by 0.8 mm (1/32 in) stroke; block style letters and the color shall be in definite contrast to the background color to which it is applied.

2.39.1.3. Documentation for Dispenser Labeling Purposes. –The retailer shall be provided, at the time of delivery of the fuel, a declaration of the volume percent biodiesel and or volume percent of biomass-based diesel on an invoice, bill of lading, shipping paper, or other documents. This documentation is for dispenser labeling purposes only; it is the responsibility of any potential blender to determine the amount of biodiesel in the diesel fuel prior to blending.

2.39.1.4. Delivery Documentation for Premium Diesel or Other Diesel Terminology Claims. – Before or at the time of delivery of the diesel fuel, the retailer or the wholesale purchaser-consumer shall be provided on an invoice, bill of lading, shipping paper, or other documentation a declaration of all performance properties that qualifies the fuel as premium diesel fuel as required in Section 2.39.2. Premium Diesel Fuel and 2.39.3. Use of Other Diesel Terminology.

(Added 2024)

2.39.2. Premium Diesel Fuel. – All diesel fuels identified on retail dispensers as premium, super, supreme, or premier must conform to the following minimum requirements.

B. Uniform Regulation for the Method of Sale of Commodities

- (a) **Cetane Number.** – A minimum cetane number of 47.0 as determined by the latest version of ASTM D613, “Standard Test Method for Cetane Number of Diesel Fuel Oil.”

NOTE: ASTM D613, “Standard Test Method for Cetane Number of Diesel Fuel Oil” is the referee method; however, the following methods can be used to determine cetane number: the latest version of ASTM D6890, “Standard Test Method for Determination of Ignition Delay and Derived Cetane Number” (DCN) of Diesel Fuel Oils by Combustion in a Constant Volume Chamber”; and ASTM D7668, “Standard Test Method for Determination of Derived Cetane Number (DCN) of Diesel Fuel Oils–Ignition Delay and Combustion Delay Using a Constant Volume Combustion Chamber Method.”

- (b) **Low Temperature Operability.** – A cold flow performance measurement which meets the latest version of ASTM D975, “Standard Specification for Diesel Fuel,” tenth percentile minimum ambient air temperature charts and maps by the latest version of either ASTM D2500, “Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels” or ASTM Standard D4539, “Standard Test Method for Filterability of Diesel Fuels by Low-Temperature Flow Test (LTFT).” The latest version of ASTM D6371, “Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels” may be used when the test results are a maximum of 6 °C below the Cloud Point. Low temperature operability is only applicable October 1 to March 31 of each year.

NOTE: When Cloud Point determinations are made, ASTM D2500, “Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels” is the referee method. However, bias-corrected results from the automatic Standard Test Methods listed in the latest version of ASTM D975, “Standard Specification for Diesel Fuel” may be used as alternatives with the same limits. Bias-correction equations are noted in the respective precision sections of each automatic test method. In case of dispute, ASTM Test Method D2500 shall be the referee method.

(Note Added 2025)

- (c) **Lubricity.** – A maximum wear scar diameter of 460 micrometers as determined by the latest version ASTM D6079, “Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR).”

NOTE: The latest version of ASTM D6079, “Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR)” is the referee method; however, the latest version of ASTM D7688, “Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR) by Visual Observation” can be used.

- (d) **Corrosion.** – A minimum rating of B+ as determined by the most recent version of NACE TM0172, “Determining Corrosive Properties of Cargoes in Petroleum Product Pipelines.”

NOTE: The latest recent version of NACE TM0172 “Determining Corrosive Properties of Cargoes in Petroleum Product Pipelines” is the referee method. The latest version of ASTM D7548 “Standard Test Method for Determination of Accelerated Iron Corrosion in Petroleum Products” can be used.

- (e) **Filter Blocking Tendency (FBT)** – A maximum of 2.2 by the latest version of ASTM D2068, “Standard Test Method for Determining Filter Blocking Tendency”, following procedure B.

- (f) **Injector Deposit Control.** – Maximum power loss in keep-clean mode of 2 % by the latest version of Coordinating European Council, CEC F-98-08, “Direct Injection, Common Rail Diesel Engine Nozzle Coking Test.”

2.39.3. Use of Other Diesel Terminology. – For any terms other than premium, super, supreme, or premier included in the diesel fuel product or grade name and/or advertisements and claims displayed on dispensers, pump toppers, pole signs and bollard signs which imply improved performance, the product must have a clearly-defined fuel property with a substantiated functional benefit. Such property must be measurable utilizing industry

accepted test methodologies developed by recognized standards organizations such as ASTM, SAE, and CEC to allow verification of the improved performance.

(Added 2021)

2.40. Cannabis and Cannabis-Containing Products. – *Cannabis* is a genus of flowering plants in the family Cannabaceae, of which *Cannabis sativa*, *indica*, *ruderalis* are species, and any hybridization thereof. This definition includes products that contain 0.3 percent or less of Total Delta-9 Tetrahydrocannabinol (THC) (also known as Hemp) and products that contain more than 0.3 percent of Total Delta-9 (THC) (also known as cannabis, marijuana, or marihuana).

2.40.1. Unit.

- (a) Volume – Products offered for sale in liquid form shall be sold by volume.
- (b) Weight – Products offered for sale in non-liquid form shall be sold by weight. These products may also have a supplemental declaration of count or measure.

2.40.2 Sale from Bulk.

- (a) When sold from bulk, all sales shall be based on net weight or net volume.
- (b) When liquids are offered for sale from bulk, the reference temperature for measurement shall be 20 °C (68 °F). Products shall be delivered at a temperature within ± 2 °C (5 °F). Artificially heating liquids to temperatures higher than the specified limits is prohibited.

2.40.3. Water Activity. – When unprocessed *Cannabis*, is kept, offered, or exposed for sale, sold, bartered, or exchanged, or ownership transfers, the water activity shall be 0.60 (± 0.05) in accordance with latest version of ASTM D8197, Standard Specification for Maintaining Acceptable Water Activity (a_w) Range (0.55 to 0.65) for Dry Cannabis Flower Intended for Human/Animal Use.

(Added 2023)

Section 3. General

3.1. Presentation of Price. – Whenever an advertised, posted, or labeled price per unit of weight, measure, or count for any commodity includes a fraction of a cent, all elements of the fraction shall be prominently displayed, and the numerals expressing the fraction shall be immediately adjacent to, of the same general design and style as, and at least one half the height and width of, the numerals representing the whole cent.

(Added 1976)

3.2. Allowable Differences: Combination Quantity Declarations. – Whenever the method of sale for a bulk or packaged commodity requires the use of a statement that includes count in addition to weight, measure, or size, the following shall apply to the particular commodity:

3.2.1. Beverageware: Pressed and Blown Tumblers and Stemware. – The allowable difference between actual and declared capacity shall be:

(a) **SI Units:**

- (1) plus or minus 10 mL for items of 200 mL capacity or less; and
- (2) plus or minus 5 % of the stated capacity for items over 200 mL capacity.

(Added 1973) (Amended 1974, 1979, and 1980)

(b) **U.S. Customary Units:**

- (1) plus or minus 1/4 fl oz for items of 5 fl oz capacity or less; and
- (2) plus or minus 5 % of the stated capacity for items over 5 fl oz capacity.

3.3. Labeling of Machines that Dispense Packaged Commodities. – All vending machines dispensing packaged commodities shall indicate:

- (a) product identity;
- (b) net quantity; and
- (c) the party responsible for the vending machine.

Examples:

“For service or refunds contact: XYZ Cola Company Rockville, MD 20800”

“Telephone: (301) 555-1000,” or “See attendant inside for refunds.”

(Amended 1995)

- (d) the requirements for product identity and net quantity can be met either by display of the package or by information posted on the outside of the machine.

(Added 1972)

3.4. Railroad Car Tare Weights. – Whenever stenciled tare weights on freight cars are employed in the sale of commodities or the assessment of freight charges, the following conditions and requirements shall apply:

3.4.1. Newly Stenciled Tare Weights. – All newly stenciled or re-stenciled tare weights shall be accurately represented to the nearest 50 kg for metric units and to the nearest 100 lb for U.S. customary units, and the representation shall include the date of weighing.

(Amended 1979)

3.4.2. Allowable Difference. – The allowable difference between actual tare weight and stenciled tare weight on freight cars in use shall be per Section 3.4.2.(a) SI allowable difference or Section 3.4.2.(b) U.S. customary allowable difference.

(a) **SI allowable difference:**

- (1) plus or minus 150 kg for cars 25 000 kg or less;
- (2) plus or minus 200 kg for cars over 25 000 kg to and including 30 000 kg; and
- (3) plus or minus 250 kg for cars over 30 000 kg.

(Added 1979)

(b) **U.S. customary allowable difference:**

- (1) plus or minus 300 lb for cars 50 000 lb or less;
- (2) plus or minus 400 lb for cars over 50 000 lb to and including 60 000 lb; and
- (3) plus or minus 500 lb for cars over 60 000 lb.

3.4.3. Verification or Change of Tare Weights. – Tare weight determinations for verification or change of stenciled weights shall only be made on properly prepared and adequately cleaned freight cars.

3.4.4. Special Cars. – Tank cars, covered hopper cars, flat cars equipped with multi-deck racks or special superstructure, mechanical refrigerator cars, and house type cars equipped with special lading protective devices must be reweighed and re-stenciled only by owners or their authorized representatives:

(a) when car bears no lightweight (empty weight) stenciling; and

(b) when repairs or alterations result in a change of weight in excess of the permissible lightweight tolerance.

(Added 1974) (Renumbered 1985)

(Added 1973) (Amended 1974, 1979, and 1985)

Section 4. Revocation of Conflicting Regulations

All provisions of all orders and regulations heretofore issued on this same subject that are contrary to or inconsistent with the provisions of this regulation, and specifically _____, are hereby revoked.

(Added 1971)

Section 5. Effective Date

This regulation shall become effective on _____.

Given under my hand and the seal of my office in the City of _____ on this _____ day of _____.

Signed _____

(Added 1971) (Amended 1973)