

compressed gas as an article of stores on board a vessel until retested and re-marked in accordance with the Interstate Commerce Commission regulations. A cylinder reclaimed from a previous installation and showing a test date marking exceeding a period of 5 years shall not be used as a container of compressed gas on board a vessel unless the residue of gas within the cylinder has been discharged and the cylinder retested and re-marked in accordance with requirements of the Interstate Commerce Commission regulations for the particular gas and cylinder involved. Cylinders retested under any of the above conditions shall have new or renewed valve and safety relief devices of the proper design installed in the cylinder.

(b) Cylinders containing liquefied petroleum gas for use as an article of stores on board any domestic vessel subject to the regulations in this subchapter shall conform to the following conditions:

(1) All such cylinders shall be constructed, tested, marked, maintained and retested in accordance with the regulations of the Interstate Commerce Commission.

(2) All liquefied petroleum gas cylinders in service shall bear a test date marking indicating that they have been retested in accordance with the regulations of the Interstate Commerce Commission.

(3) Regardless of the date of the previous test, a cylinder shall be re-

jected for further service when it leaks; when it is weakened appreciably by corrosion, denting, bulging or other evidence of rough usage; when it has lost more than five percent of its tare weight; or when it has been involved in a fire.
[CGFR 59-9, 24 F.R. 3508, May 1, 1959]

§ 147.04-2 Cylinders of foreign manufacture forming part of a fire extinguishing system.

Cylinders of foreign manufacture forming part of a fire extinguishing system on board a foreign vessel and removed from such vessel for purposes of recharging and replaced on board said vessel or other vessel of the same nationality are not subject to the provisions of § 147.04-1, provided the cylinders are charged and otherwise comply with the Interstate Commerce Commission regulations governing foreign cylinders.

§ 147.04-3 Stowage and care of cylinders.

All cylinders serving as containers of a compressed gas used as an article of stores on board vessels shall be stowed in accordance with the requirements shown in the table, § 147.05-100. When not in use, cylinders shall be secured in a rack provided for this purpose. Cylinders shall be protected from all sources of heat and shall not be dropped, rolled or dragged on the deck. Cylinders shall not be used as a roller to transfer weighty objects. Heat from an open flame shall never be applied to a cylinder in an attempt to exhaust the contents thereof.

SHIPS' STORES AND SUPPLIES OF A DANGEROUS NATURE

§ 147.05-100 Table S—Classification: Ships'

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation
			Cargo vessel
Acetylene (for use as burning or welding equipment).	Cylinders shall conform to ICC specifications and bear the mark ICC-8 and shall be fitted with valve protection cap. Guard against leaks at this gas is inflammable and explosive over a wide range of mixtures with air (3 to 75% for pure acetylene). Cylinders have been known to explode from shock, such as dropping. Acetylene gas is slightly lighter than air. Oil or other lubricant shall not be used on a valve or other fitting connecting to cylinders.	Red gas.....	<p>Stowage: In a cool ventilated location selected and supervised by the Chief Engineer with the knowledge and approval of the Master. (Protected from temperatures exceeding 100° F.). Stow upright, secured in a rack, with valve protection cap in place on cylinder when of a type requiring such cap. Cylinder shall be stowed in rack at all times, except when actually in use. Quantity limitations: Cargo vessels shall not have on board as stores more than 600 cu. ft. of acetylene at any time.</p>

§ 147.04-4 Culinary supplies, potable spirits, cosmetics.

Flavoring extracts and other culinary supplies and potable spirits in containers as furnished by the trade are not subject to the regulations in this part. Cosmetics and toilet articles in containers not exceeding 1 quart capacity are not subject to the regulations in this part.

§ 147.04-5 Liquefied carbon dioxide for permanently installed fire extinguishing systems.

Liquefied carbon dioxide for permanently installed fire extinguishing system may be carried on board any character of vessel subject to the regulations of this part in compliance with the following conditions:

(a) The storage tank(s) shall meet the requirements for Class I or Class II arc-welded unfired pressure vessels, and shall be fabricated, inspected and tested in accordance with the applicable requirements of Subchapter F (Marine Engineering) of this Chapter.

(b) The specifications and installation of the storage tank, appurtenances and system shall be as approved by the Commandant of the U. S. Coast Guard.
[CGFR 54-16, 19 F.R. 4984, Aug. 6, 1959]

§ 147.04-6 Portable magazine chest for stowage of ships' signal and emergency equipment.

(a) Portable magazine chests shall be constructed of metal and lined with wood, and not less than 6 nor more than 40 cubic feet capacity. The lining shall

be so fitted and finished as to form a smooth surface within the interior of the chest. Fastenings shall be recessed below the surface to avoid projections within the interior. Construction shall be such as to separate all containers of explosives or pyrotechnics from contact with metal surfaces. The metal shall be $\frac{1}{8}$ inch thick and free from crimps, buckles, and rough edges. All metal surfaces shall be wire brushed and all oil, grease, rust, loose scale, and other extraneous matter, removed before application of any primer. All surfaces of the metal chest and fittings shall be given a heavy coat of quick drying red lead, zinc chromate, or other suitable primer before painting. The finish shall consist of two coats of paint. The interior shall be lined with wood sheathing of a minimum thickness of $\frac{3}{8}$ inch. Securing means shall be countersunk below the surface of the sheathing. Securing means for the cover and four (4) lashing rings shall be provided. The lashing rings shall be 3-inch I.D. by $\frac{3}{8}$ -inch wire permanently attached to the magazine chest. Two runners, not less than 2 inches high shall be permanently attached to the bottom of the chest.

(b) Portable magazine chests used for the stowage of pyrotechnic signals, rockets, and powder for line-throwing guns shall be marked, in letters at least 3 inches high, with the following legend: "Portable Magazine Chest," "Inflammable—Keep Lights and Fire Away."
[CGFR 59-14, 24 F.R. 5276, June 30, 1959]

stores and supplies of a dangerous nature.

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
<p>Stowage: In a cool ventilated location selected and supervised by the Chief Engineer with the knowledge and approval of the Master. (Protected from temperatures exceeding 100° F.). Stow upright, secured in a rack, with valve protection cap in place on cylinder when of a type requiring such cap. Cylinders shall be stowed in rack at all times, except when actually in use. Quantity limitations: Passenger vessels navigating inland or coastwise waters shall not have on board as stores more than 300 cu. ft. of acetylene at any time. Passenger vessels going foreign or intercoastal shall not have on board as stores more than 600 cu. ft. of acetylene at any time.</p>	<p>Not permitted.....</p>	<p>Stowage: In a cool ventilated location selected and supervised by the Chief Engineer with the knowledge and approval of the Master. (Protected from temperatures exceeding 100° F.). Stow upright, secured in a rack, with valve protection cap in place on cylinder when of a type requiring such cap. Cylinders shall be stowed in rack at all times except when actually in use. Quantity limitations: Railroad car ferries shall not have on board as stores more than 300 cu. ft. of acetylene.</p>

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation
			Cargo vessel
Ammunition for small arms.	Ammunition for small arms includes all fixed ammunition such as is used in pistols, revolvers, rifles, shotguns and similar firearms, with nonexplosive bullets and consists usually of a paper or metallic cartridge case, the component parts necessary for one firing being all in one assembly.	No label required.	(See footnote 1.)
Anesthetics: Carbon dioxide. Cyclopropane. Ethylene. Nitrous oxide. Oxygen. (When contained in cylinders.)	When prepared and offered for use for anesthesia purposes, cylinders of these gases may be used on board vessels as medical supplies. <i>Excessive quantities of these gases in enclosed spaces are suffocating.</i> Carbon Dioxide, Nitrous Oxide and Oxygen are non-inflammable gases. Cyclopropane and Ethylene are inflammable gases. These gases in the following proportions with air form explosive mixtures: Cyclopropane about 2% to 10%. Ethylene about 5% to 28%. Oil or other lubricant shall not be used on any valve or other fitting connecting to cylinders. For use on board domestic vessels as a fire extinguishing agent, when contained in cylinders or approved storage tanks. Noninflammable gas. Will cause suffocation if breathed in excessive quantities. Odorous. Heavier than air. Oil used for cleaning purposes in engine department. May be of any type oil possessing a flash point above 115° F. A crude or refined oil of a flash point at or below 115° F. to which has been added a foreign substance for the purpose of having the oil attain the permissible flash point shall not be accepted for purpose of cleaning oil.	Green gas. Red gas.	Stowage: In place in holders designed for use, such holding device forming part of the sick bay equipment; or In wooden boxes stored in a cool well ventilated compartment away from living quarters. Containers: ICC specification cylinders completely enclosed in stout wooden boxes. When shipped without boxing the cylinders shall be fitted with valve protection caps.
Carbon dioxide Liquefied carbon dioxide.	Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.	Green gas.	Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.
Cleaning oil, certification for use as an article of ships' stores and supplies on board passenger vessels is required.	No label required.		Stowage: In engine room, amount limited to 110 gallons. Containers: Metal tanks. Not more than 110 gallons capacity (plus 5 percent outage). Tank to be constructed of steel not less than $\frac{1}{4}$ " thick. Seams may be welded or riveted oiltight. Reinforcing bosses shall be welded to tank in way of all fittings. Petcock air vent may be fitted at top of tank. Closure for filling opening shall be screw-thread type having at least 5 complete threads and gasket. Liquid level indicator gauges shall not be permitted.

¹ A vessel may carry such ammunition for small arms as the master deems indispensable for the preservation of discipline on board the vessel.

No person shall bring or have in his possession or use on board a vessel any ammunition for small arms except by express permission of the master or other person in charge of the vessel.

and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
(See footnote 1.)	(See footnotes 1 and 2.)	(See footnotes 1 and 2.)

Anesthetics are not likely to be furnished as ships' stores and supplies on this character of vessel.

Anesthetics are not likely to be furnished as ships' stores and supplies on this character of vessel.

Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.

Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.

Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.

Permitted for use on board any character of vessel as a fire extinguishing agent when contained in cylinders meeting the requirements of § 147.04-1, or storage tanks meeting the requirements of § 147.04-5.

The prohibition in footnote 1 shall not apply to pleasure type automobiles on board ferry vessels having ammunition for small arms within the automobile when in accordance with the provisions of § 146.08-45 of the regulations in chapter.

Table 5—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation	
			Cargo vessel	
Drugs and medicines (prepared and packed as Drugs or Medicines as normally offered in trade).	Ether, Chloroform, Alcohol, Carbolic Acid and other Drugs, Medicines and Pharmaceutical Preparations are permitted. Vessels constructed after the effective date of these regulations shall be equipped with a medicine chest at least equivalent to the specifications of the U. S. Public Health Service. Specifications may be obtained by addressing that service at Washington, D. C. Existing vessels replacing a medicine chest shall be required to provide a chest conforming to the health service specifications. The use of drugs or medicines for any other purpose on board a vessel, except in an emergency, is prohibited.	No label required.	Stowage: Within ship's medicine chest in sick bay or other location designated by the master.	
Engine starting fluid, inflammable, in metal containers, not permitted in gelatin containers.	Used for starting engines. Flashpoint usually below 0° F. Must be packaged in metal containers that will not rupture when exposed to temperatures of 200° F. or below. Protect from excessive temperature.	No label required.	Stowage: In metal locker selected and supervised by the chief engineer, with the knowledge and approval of the master. (See footnote 1.)	
Fireworks. (As defined in §§ 146.20-9(c) and 146.20-11(g)) Fuel for safety lamp, vessels without safety lamp equipment shall not carry this fuel.	Straight run distillate without the addition of any other substance, and conforming with lamp manufacturers' recommendations. Highly inflammable. Keep lights and fire away.	No label required.	Safety lamps not carried as emergency equipment on cargo vessels.	
Fuel for heating, cooking, lighting. Alcohol, solid or fluid.		No label required.	Alcohol, solid or fluid, permitted. Containers of solidified alcohol shall be properly secured on a fixed base. Fluid alcohol burners where wet priming is used shall have catch pan not less than $\frac{3}{4}$ " deep secured inside the frame of the stove or the metal protection under the stove flanged up $\frac{1}{4}$ " to form a pan.	
Inflammable liquid not otherwise described by name in this table as fuel for heating, cooking, or lighting.	Liquids giving off inflammable vapors at or below a temperature of 80° F.		Not permitted.	
Combustible liquid not otherwise described by name in this table as fuel for heating, cooking, or lighting.	Liquids giving off inflammable vapors at or below a temperature of 150° F. and above 80° F.			
Kerosene or fuel oil (when possessing a flash point of not lower than 110° F.).	Kerosene or commercial standard fuel oil No. 1, No. 2, or No. 3.	No label required.		

¹ No person shall bring, except as permitted cargo, or have in his possession on board a vessel, fireworks of any description, except such fireworks as are permitted by these regulations for use in the navigation and safety of the vessel. This prohibition shall not apply to pleasure type automobiles having fireworks within the automobiles when in accordance with the provision of § 146.08-45 of the regulations in this chapter.

The ignition, discharge or display of fireworks on board any vessel is prohibited. This prohibition does not apply to ship's signals and emergency equipment.

These regulations shall not apply to pyrotechnic displays on unmanned, moored vessels under the direction or permit of municipal or State authorities.

and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Stowage: Within ship's medicine chest in sick bay or other location designated by the master.	Stowage: Within ship's medicine chest in sick bay or other location designated by the master	Stowage: Within ship's medicine chest in sick bay or other location designated by the master
Stowage: In metal locker selected and supervised by the chief engineer, with the knowledge and approval of the master.	Stowage: In metal locker selected and supervised by the chief engineer, with the knowledge and approval of the master.	Stowage: In metal locker selected and supervised by the chief engineer, with the knowledge and approval of the master.
(See footnote 1.)	(See footnote 1.)	(See footnote 1.)
Stowage: Alongside safety lamp. Container: In safety containers furnished by the lamp manufacturer.	Safety lamps not carried as emergency equipment on ferry vessels.	When required. Stowage: Alongside safety lamp. Container: In safety containers furnished by the lamp manufacturer.
Alcohol, solid or fluid, permitted. Containers of solidified alcohol shall be properly secured on a fixed base. Fluid alcohol burners where wet priming is used shall have catch pan not less than $\frac{3}{4}$ " deep secured inside the frame of the stove or the metal protection under the stove flanged up $\frac{1}{4}$ " to form a pan.	Alcohol, solid, permitted. Alcohol, fluid, not permitted. Containers of solidified alcohol shall be properly secured on a fixed base.	Alcohol, solid, permitted. Alcohol, fluid, not permitted. Containers of solidified alcohol shall be properly secured on a fixed base.
Not permitted.	Not permitted.	Not permitted.
Not permitted.	Not permitted.	Not permitted.
Permitted. (See footnote 2.)	Permitted. (See footnote 2.)	Permitted. (See footnote 2.)

¹ Installation shall conform to the following provisions:

(i) Where wet priming is used, a catch pan not less than $\frac{3}{4}$ " deep shall be secured inside the frame of the stove or metal protection under the stove flanged up $\frac{1}{4}$ " to form a pan.

(ii) An inflammable liquid shall not be used for priming.

(iii) Fuel tanks for fixed stoves shall be separate therefrom, mounted in a location open to the atmosphere or mounted inside a compartment such tanks shall be fitted with outside fill and vent.

(iv) Pressure or gravity jet feed is permissible. Bubble feed or any system which may be affected by list or roll of the vessel shall not be used. On gravity or siphon tanks an easily accessible shut-off valve shall be fitted in the fuel line at the tank, and if the tank is outside the compartment, a shut-off valve shall also be fitted at the stove.

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation
<i>Fuel for heating, cooking, lighting—Continued.</i> <i>Alcohol, solid or fluid—Continued.</i> <i>Liquefied or nonliquefied gas.</i>	Systems using a liquefied or a non-liquefied gas, including regulating and safety equipment, exclusive of the cylinder or container, shall be of a design approved by the Commandant of the Coast Guard for such use. <i>Vapors from petroleum gases are heavier than air and with air form explosive mixtures over wide ranges. Acetylene, methane and coal gas are lighter than air.</i>	Red gas label required on cylinders and red inflammable liquid label required on drums.	Permitted... Cylinders and drums shall be ICC specification containers. The cylinders shall bear a test date marking indicating test within the preceding 5 years. Cylinders or drums shall be located in a metal locker or housing on or above the weather deck in such position that any escaping vapor cannot reach living quarters or enclosed compartments on board the vessel. Lockers or housings shall be vented to the open air near the bottom for gases evolving vapors heavier than air and near the top of the enclosure for gases evolving vapors lighter than air. Cylinders or drums shall be protected from climatic extremes.
<i>Illuminating oil—Certification for use as an article of ships' stores and supplies is required.</i>	A distillate oil used as fuel for oil lamps. Shall possess a flashpoint above 250° F.	No label required.	Stowage: Vessel's lamp locker amount limited to 55 gallons. Containers: For quantities in excess of 10 gallons: Metal barrels or drums. Metal tanks: Not more than 55 gals. capacity (plus 2 percent outrage). Tank to be not less than No. 14 U. S. S. gauge steel. Seams may be welded or riveted oil tight. Reinforcing bosses shall be fitted in way of filling and draw-off opening. Closure for filling opening shall be of screw-thread type having at least 3 complete threads and gasket. Liquid level indicator gauges shall not be permitted. Quantities up to 10 gallons may be carried in the metal containers as furnished by the trade, provided no single container exceeds 5 gallons capacity.
<i>Helium.....</i>	Cylinders shall conform to the Interstate Commerce Commission specifications and bear the specification marking, date of test and be fitted with valve-protection cap. <i>A noninflammable gas.</i>	Green gas.....	Stowage, in a cool, ventilated location.
<i>Hydrogen.....</i>	<i>Inflammable gas.</i> <i>Inflammable and explosive with about 4% to 76% in air.</i> <i>Excessive quantities in an enclosed space may cause suffocation.</i> <i>Lighter than air.</i>	Red gas.....	Cylinders shall conform to ICC requirements and shall be fitted with a valve protection cap. Stowage: "On deck", protected from damage and the direct rays of the sun by a strong, well-ventilated cage. Not more than 3 cylinders of hydrogen shall be carried as ships' stores and supplies

and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Not permitted.	Not permitted.	Not permitted.
<p>Stowage: Vessel's lamp locker amount limited to 55 gallons.</p> <p>Containers: For quantities in excess of 10 gallons. Metal barrels or drums. Metal tanks: Not more than 55 gals. capacity (plus 2 percent outage). Tank to be not less than No. 14 U. S. gauge steel. Seams may be welded or riveted oil tight. Reinforcing bosses shall be fitted in way of filling and draw-off opening. Closure for filling opening shall be of screw-thread type having at least 3 complete threads and gasket. Liquid level indicator gauges shall not be permitted. Quantities up to 10 gallons may be carried in the metal containers as furnished by the trade, provided no single container exceeds 5 gallons capacity.</p>	<p>Stowage: Vessel's lamp locker amount limited to 2 gallons.</p> <p>Containers: Tight metal containers as furnished by the trade.</p>	<p>Stowage: Vessel's lamp locker amount limited to 2 gallons.</p> <p>Containers: Tight metal containers as furnished by the trade.</p>
Stowage, in a cool, ventilated location.	Stowage, in a cool, ventilated location.	Stowage, in a cool, ventilated location.
<p>Cylinders: shall conform to ICC requirements and shall be fitted with a valve protection cap.</p> <p>Stowage: "On deck", protected from damage and the direct rays of the sun by a strong well-ventilated cage. Not more than 3 cylinders of hydrogen shall be carried as ships' stores and supplies.</p>	Not permitted.	Not permitted.

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation
			Cargo vessel
Motion picture film	Film used in providing entertainment for the passengers and crew. Only slow burning (cellulose acetate) film is permitted. Cylinders shall conform to ICC requirements and shall be fitted with a valve protection cap. Oxygen is a strong supporter of combustion and greatly accelerates fire. Oxygen under pressure may cause grease, oil and other readily combustible and finely divided substances to ignite. Colorless, odorless and tasteless. Slightly heavier than air. Oil or other lubricants shall not be used on a valve or other fitting connecting to cylinders.	No label required.	Permitted. Stowage: (See footnote 1.)
Oxygen	Green gas.		Stowage: In a cool ventilated location selected and supervised by the chief engineer with the knowledge and approval of the master. (Protected from temperatures exceeding 100° F.) Stow upright, secured in a rack, with valve protection cap in place on cylinder. Cylinders shall be stowed in rack at all times, except when actually in use. Quantity limitations: Cargo vessels shall not have on board as ships' stores more than 3,000 cu. ft. of oxygen at any time.
Paint and paint products:			(See footnote 2.)
Paint.			
Varnish.			
Lacquers.			
Enamel.			
When possessing a flashpoint at or below 80° F.			
Paint reducing or thinning compounds.			
Paint mixing oils and driers.			
Bronzing liquids.			
Liquid shellac.			
Solvents for paint or shellac.			
When possessing a flashpoint at or below 80° F.			
Paint and varnish removing compounds (when possessing a flashpoint at or below 150° F.)		No label required.	(See footnote 4.)
Paint and paint products:	Ready mixed paints.	No label required.	
Paint (when possessing a flashpoint above 80° F.)			
Paint mixing oils (when possessing a flashpoint above 80° F.)			
Driers (when possessing a flash point above 80° F.)			
Reducing or thinning compounds (when possessing a flash point above 80° F.)			
Stains (when possessing a flashpoint above 80° F.)			
	Vehicle oils: Turpentine, linseed oil, soya bean oil, tung oil, fish oil, turpentine substitute, flattening oil.	No label required.	
	Compounds used to accelerate the drying of paint.	No label required.	
	Solvents and dilutents used for the purpose of reducing the viscosity or consistency of finishes.	No label required.	
	Used to intensify or produce grain effect or to produce imitation wood-grain effects.	No label required.	

¹ All films on board shall at all times be kept within the operating booths. They shall be contained in individual metal boxes, except for the film in the machine and the film immediately before it is placed in or immediately after removal from the machine. Where not over five 5-pound reels are present in the booth they may be placed on combustible shelves, suitably secured against displacement by the motions of the boat. Where more than five reels but not more than 10 reels are present, they shall be kept in closed shelves or cabinets similar in construction to that of the walls of the booth. Where more than ten 5-pound reels are present, they are to be stored in an insulated film cabinet.

² Ready mixed paints, varnish, or enamel possessing a flashpoint at or below 80° F. shall not be permitted as articles of ships' stores on board vessels subject to these regulations.

³ Compounds of nitrocellulose with or without plasticizer, pigment, solvent or thinners; known as "lacquer", possessing a flashpoint at or below 80° F., shall not be permitted for use on board vessels subject to these regulations.

and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Permitted.	Permitted.	Permitted.
Stowage: In a cool ventilated location selected and supervised by the chief engineer with the knowledge and approval of the master. (Protected from temperatures exceeding 100° F.) Stow upright, secured in a rack, with valve protection cap in place on cylinder. Cylinders shall be stowed in rack at all times, except when actually in use. Quantity limitations: Passenger vessels navigating inland or coastwise waters shall not have on board as ships' stores more than 1,500 cu. ft. of oxygen at any time. Passenger vessels going foreign or intercoastal shall not have on board more than 3,000 cu. ft. of oxygen at any time.	Not permitted.	Stowage: In a cool ventilated location selected and supervised by the chief engineer with the knowledge and approval of the master. (Protected from temperatures exceeding 100° F.) Stow upright, secured in a rack, with valve protection cap in place on cylinder. Cylinders shall be stowed in rack at all times, except when actually in use. Quantity limitations: R. R. car ferries shall not have on board as ships' stores more than 1,500 cu. ft. of oxygen at any time.
(See footnote 2.)	(See footnote 2.)	(See footnote 2.)
(See footnote 3.)	(See footnote 3.)	(See footnote 3.)
(See footnote 4.)	(See footnote 4.)	(See footnote 4.)
Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.	Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.	Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.

¹ These compounds, and compounds possessing similar characteristics, used in mixing, filling, thinning, or applying paints when possessing a flashpoint at or below 80° F., shall not be permitted as articles of ships' stores on board vessels subject to these regulations.

² These compounds, when possessing a flashpoint at or below 150° F., shall not be permitted as articles of ships' stores on board passenger vessels subject to these regulations.

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation	
			Cargo vessel	
Paint and varnish removing compounds (when possessing a flashpoint above 150° F.) Certification for use as an Article of Ships' Stores and Supplies on board passenger vessels is required.	Liquid preparations with solvent properties to soften up paint or varnish, thus permitting ready removal.	No label required.		
Liquefied or non-liquefied petroleum gas (except that which is used as "fuel for heating, cooking, lighting").	<i>Inflammable gas.</i> Components include propane, propylene, butane, butylene, and butadiene. Vapors from most petroleum gases are heavier than air and will form an explosive mixture with air over varying ranges.	Red gas.....	Cylinders shall conform to ICC requirements and shall be fitted with a valve protection cap. Stowage: "On deck", protected from damage and the direct rays of the sun by a strong well-ventilated cage. Not more than 3 cylinders of liquefied or non-liquefied petroleum gas shall be carried as ships' stores and supplies. (See footnote 1.)	
Refrigerants (a substance used to produce refrigeration by its expansion or vaporization).	The refrigerants listed in Groups "A" and "B" are approved for use in refrigerating equipment on board vessels. The refrigerants listed in Group "A" except carbon dioxide are approved for use in air conditioning systems designed and used for human comfort.		
GROUP "A"				
Air.....	None.....	The service system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".	The service, system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".	The service, system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".
Water.....	None.			
Carbon dioxide.....	Green gas.			
Dichlorodifluoromethane.....	Green gas.			
Dichloromonofluoromethane.....	None.			
Dichlorotetrafluoroethane.....	None.			
Trichloromonofluoromethane.....	None.			
Trichlorotrifluoroethane.....	None.			
GROUP "B"				
Ammonia.....	Green gas.....	Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....	Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....	Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....
	Direct and indirect systems.....	Green gas.....		
Ammonia.....	Weakly inflammable explosive with about 16% to 26% in air. Vapors lighter than air. Poisonous, even in small quantities less than 1%. Irritating odor gives warning of presence. Pressure about 315 lbs. at 130° F. Accept in ICC cylinders only.	Green gas.....		

¹ Refrigerating systems are divided into classes, descriptive of the method employed for extracting heat as follows:
Direct system is one in which the evaporator is in direct contact with the material or space refrigerated or is located in air circulating passages communicating with such spaces.

Indirect system is one in which a liquid, such as brine or water cooled by the refrigerant, is circulated to the material or space refrigerated or is used to cool air so circulated.

and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.	Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.	Stowage: In vessels' paint room and paint lockers. Containers: Metal containers as furnished by the trade. All containers when not in actual use shall be tightly closed.
Cylinders shall conform to ICC requirements and shall be fitted with a valve protection cap.	Not permitted.....	Not permitted.
Stowage: "On deck", protected from damage and the direct rays of the sun by a strong well-ventilated cage. Not more than 3 cylinders of liquefied or non-liquefied petroleum gas shall be carried as ships' stores and supplies.	(See footnote 1.)	(See footnote 1.)
The service, system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".	The service, system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".	The service, system and refrigerant permitted for various type vessels is as follows: General refrigeration service: Direct system. Indirect system. Any of the approved refrigerants in Groups "A" and "B".
Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....	Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....	Air conditioning service: Direct system. Unit system. Any of the approved refrigerants in Group "A" except carbon dioxide. Unit refrigeration service: Indirect system. Any of the approved refrigerants in Groups "A" and "B". Permitted.....

¹ System is one which has been assembled and tested prior to its installation and which is installed with refrigerant containing parts completely assembled.

² Reserve supply of refrigerant may be stowed in any cool, isolated location (excepting a cargo hold, or passenger or crew spaces) on board the vessel. Racks shall be provided and the containers secured therein. Valve protection cap shall be in place on cylinders.

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, precautions required, markings required	Label required	Required conditions for transportation
			Cargo vessel
Refrigerants—Continued			
GROUP "B"—continued			
Ammonia	<p>Carbon dioxide.....</p> <p>Non-inflammable.</p> <p>Vapors heavier than air.</p> <p>Will cause suffocation if breathed in excessive quantities.</p> <p>Odorless.</p> <p>Pressure may be as high as 2,280 lbs. per square inch at 150° F.</p> <p>Accept in ICC cylinders only.</p> <p>Dichlorodifluoromethane.....</p> <p>Vapors very much heavier than air.</p> <p>Non-poisonous. Non-inflammable.</p> <p>Excessive quantities in an enclosed space may cause suffocation.</p> <p>Odorless.</p> <p>Decomposes when passed through flames evolving hydrochloric and hydrofluoric acid fumes which are toxic.</p> <p>Pressure about 180 lbs. at 150° F.</p> <p>Accept in ICC cylinders only.</p> <p>Dichlorotetrafluoroethane.....</p> <p>Vapors very much heavier than air.</p> <p>Non-poisonous. Non-inflammable.</p> <p>Excessive quantities in an enclosed space may cause suffocation.</p> <p>Odorless.</p> <p>Decomposes when passed through flames evolving hydrochloric and hydrofluoric acid fumes which are toxic.</p> <p>Pressure about 19.8 lbs. at 70° F.</p> <p>Pressure about 57 lbs. at 150° F.</p> <p>Accept in ICC cylinders only.</p> <p>Dichloromonofluoromethane.....</p> <p>Practically non-inflammable.</p> <p>Vapors very much heavier than air.</p> <p>Toxic in concentrations above 2.5% upon exposure for more than 2 hours.</p> <p>Odorless.</p> <p>Decomposes when passed through flames evolving hydrochloric and hydrofluoric acid fumes which are toxic.</p> <p>Pressure about 8.5 lbs. at 70° F.</p> <p>Pressure about 50 lbs. at 150° F.</p> <p>Accept in ICC cylinders only.</p> <p>Trichloromonofluoromethane.....</p> <p>Non-inflammable.</p> <p>Vapors very much heavier than air.</p> <p>Excessive quantities in an enclosed space may cause suffocation.</p> <p>Odorless.</p> <p>Decomposes when passed through flames evolving hydrochloric and hydrofluoric acid fumes which are toxic.</p> <p>Pressure minus 1-3 lbs. gauge at 70° F.</p> <p>Pressure about 24 lbs. at 150° F.</p> <p>Accept in ICC 5A Drums only.</p> <p>Trichlorotrifluoroethane.....</p> <p>Non-inflammable.</p> <p>Vapors very much heavier than air.</p> <p>Excessive quantities in an enclosed space may cause suffocation.</p> <p>Odorless.</p> <p>Decomposes.</p> <p>Pressure minus 8 lb. gage at 80° F.</p> <p>Pressure about 4 lb. at 150° F.</p> <p>Accept in ICC 5A Drums only.</p>	<p>Green gas.....</p> <p>Permitted.....</p> <p>Green gas.....</p> <p>Permitted.....</p> <p>No label required. Permitted.....</p>	

Title 46—Chapter I
and supplies of a dangerous nature—Continued

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Permitted.....	Permitted.....	Permitted.

Table S—Classification: Ships' stores

Descriptive name of article	Characteristic properties, cautions, required, markings required	Label required	Required conditions for transportation
			Cargo vessel
Refrigerants, unclassified: Carbon dioxide, solid (dry ice).	For characteristics and hazards see "Carbon dioxide, solid (dry ice, carbonic)" in § 146.27-100, Table K. When used as a refrigerant, to be limited to well-ventilated spaces on or above weather deck. Warning sign at entrance to spaces in which stowed shall be "Warning—CO ₂ Solid (Dry ice)."	None.	Method of stowage: Carbon dioxide, solid (dry ice) when used as a refrigerant shall be kept in a well-ventilated place where gas cannot accumulate and shall be kept away from open ventilation and direct openings. Appropriate warning sign at the entrances to the spaces in which stowed shall be used.
Emergency equipment. Cartridges for line throwing appliances.	A metallic case containing primer and powder in one unit and discharged by percussion. <i>The hazard of such cartridges is nil.</i> Protect from fire. Rockets or shells throwing stars of any color or description.	No label required.	Stowage: Within the box containing the line throwing appliance and its equipment, and stowed at the discretion of the master.
Distress signal rockets.	Approved parachute flare distress signals with a means of projecting them, both contained in a portable watertight case.	No label required.	Stowage: In place in the emergency and motor lifeboats. Additional flares may be stowed in a location discretionary with the master.
Parachute flare distress signal cartridges.	Powder charges for line throwing appliance (mounted-type gun).	No label required.	Stowage: Vessel's portable magazine chest.
Self-igniting pilot lights (blue flares). Signals, distress. (Combination flare and smoke.) (Distress lights. (Red flares.) (Smoke signals.)	A flare signal light used for signaling for a pilot. Distress signals furnished as equipment in lifeboats, life rafts and in pilothouse or navigating bridge.	No label required.	Stowage: Vessel's portable magazine chest. ¹ In place within the lifeboat or life raft or buoyant apparatus. Additional lights may be stowed in the pilothouse or navigating bridge.
Water lights. (Ring buoy flares.) (Life raft flares.)	A cylinder constructed in accordance with the regulations of the Commandant of the Coast Guard, loaded with a composition of calcium carbide and calcium phosphide designed to produce a brilliant light, without explosion, when in contact with water.	No label required.	Container: The container shall be constructed in accordance with specification requirements of the Commandant of the Coast Guard. Stowage: In place attached to ring buoys, life rafts, and buoyant apparatus as required by Commandant of the Coast Guard. Spares shall be stowed in vessel's portable magazine chest. Containers: Cylinders built to specifications of, and approved by Commandant of the Coast Guard.

¹ Container: A watertight metal case constructed of copper of not less than No. 22 B. W. G. thickness, seams lock-tinned and soldered. The cover or top may be of cast brass not less than $\frac{1}{8}$ " thickness, or of reinforced copper, and shall have a fitted gasket together with threaded means, clamps or dogs to provide a W. T. seal (Bayonet type closing means not permitted). The cover shall be easily removable without recourse to tools. The case shall have a capacity of not less than 6 rockets.

and supplies of a dangerous nature

Required conditions for transportation—Continued		
Passenger vessel	Ferry vessel, passenger or vehicle	R. R. car ferry, passenger or vehicle
Method of stowage: Carbon dioxide, solid (dry ice) when used as a refrigerant shall be kept in a well-ventilated place where gas cannot accumulate and shall be kept away from open ventilation and direct openings. Appropriate warning sign at the entrances to the spaces in which stowed shall be used.	Method of stowage: Carbon dioxide, solid (dry ice) when used as a refrigerant shall be kept in a well-ventilated place where gas cannot accumulate and shall be kept away from open ventilation and direct openings. Appropriate warning sign at the entrances to the spaces in which stowed shall be used.	Method of stowage: Carbon dioxide, solid (dry ice) when used as a refrigerant shall be kept in a well-ventilated place where gas cannot accumulate and shall be kept away from open ventilation and direct openings. Appropriate warning sign at the entrances to the spaces in which stowed shall be used.
Stowage: Within the box containing the line throwing appliance and its equipment, and stowed at the discretion of the master.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: Vessel's portable magazine chest. ¹	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: In place in the emergency and motor lifeboats. Additional flares may be stowed in a location discretionary with the master.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: Vessel's portable magazine chest.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Container: Metal cans having watertight top closing means.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: Vessel's portable magazine chest. ¹	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: In place within the lifeboat or life raft or buoyant apparatus. Additional lights may be stowed in the pilothouse or navigating bridge.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Container: The container shall be constructed in accordance with specification requirements of the Commandant of the Coast Guard.	Not carried as emergency equipment on ferry vessels.	Not carried as emergency equipment on car ferries.
Stowage: In place attached to ring buoys, life rafts, and buoyant apparatus as required by Commandant of the Coast Guard. Spares shall be stowed in vessel's portable magazine chest.	Stowage: In place attached to ring buoys, life rafts, as required by Commandant of the Coast Guard. Spares shall be stowed in vessel's portable magazine chest.	Stowage: In place attached to ring buoys, life rafts, as required by Commandant of the Coast Guard. Spares shall be stowed in vessel's portable magazine chest.
Containers: Cylinders built to specifications of, and approved by Commandant of the Coast Guard.	Containers: Cylinders built to specifications of, and approved by Commandant of the Coast Guard.	Containers: Cylinders built to specifications of, and approved by Commandant of the Coast Guard.

¹ Containers: The container shall be constructed of 18-ounce, or No. 22 B. W. G. copper, or equal noncorrodible metal, lock-jointed and soldered, the bottom to be rolled in and soldered. The cover or top of cast brass not less than $\frac{1}{8}$ " in thickness and 5 inches in diameter shall be so constructed as to be easily removed and made watertight by a fitted rubber gasket.

[Order 74, 6 F.R. 516, Jan. 11, 1941, as amended by Order 108, 6 F.R. 1897, Apr. 11, 1941; CGFR 47-35, 12 F.R. 4184, June 27, 1947; 12 F.R. 4389, July 3, 1947; CGFR 52-8, 17 F.R. 6549, July 17, 1952; CGFR 52-16, 19 F.R. 4935, Aug. 6, 1954; CGFR 57-33, 22 F.R. 8721, Oct. 29, 1957; CGFR 58-9, 23 F.R. 4989, June 28, 1959; CGFR 59-14, 24 F.R. 5277, June 30, 1959; CGFR 59-46, 24 F.R. 9392, Nov. 21, 1959; CGFR 62-11, 27 F.R. 5325, June 5, 1962; CGFR 64-88, 29 F.R. 18171, Dec. 22, 1964.]

ARMING OF U.S. MERCHANT CARGO VESSELS

NOTE: Order 167, Nov. 17, 1940, 6 F.R. 5881, reads as follows: Armed merchant passenger-carrying vessels of the United States shall be exempt from the application of the provisions of subsection (4) of R.S. 4472, as amended; to the extent that such vessels may accept, transport, carry, convey, store, stow, or use on board such high explosives as are necessary for such armament when said high explosives are accepted, transported, carried, conveyed, stored, stowed, or used in accordance with the provisions of §§ 147.06-2 to 147.06-5, inclusive, of the regulations governing explosives or other dangerous articles on board vessels.

§ 147.06-1 Authorization.

Armed cargo vessels of the United States may accept, transport, carry, convey, store, stow or use such high explosives as are necessary for such armament when said high explosives are accepted, transported, carried, conveyed, stored, stowed or used in accordance with the provisions of §§ 147.06-2 to 147.06-5.

[Order 168, 6 F.R. 5882, Nov. 19, 1941]

§ 147.06-2 Storage of high explosives.

Magazines shall be provided on board the vessel for the storage of high explosive ammunition (either fixed or separate loaded). Magazines may be located in an upper tween deck or a shelter deck cargo space, or in any other compartment below the weather deck, and adjacent to the gun mount, provided such magazines are not located over, under or adjacent to passenger spaces. The maximum separation possible shall be maintained between any magazine and any space allotted to the use of passengers or crew. Magazines shall not be constructed in bearing with the collision bulkhead nor with a bulkhead forming a boiler room, engine room, coal bunker

or galley boundary. If it is necessary to construct such magazines in proximity to these bulkheads, a cofferdam space of at least 4 feet shall be provided between the bulkhead and the magazine side. Consistent with the above restrictions magazines shall be constructed in locations selected by the Navy Department. A "ready" supply of shells may be stowed in "ready boxes" on deck adjacent to the gun mount. These "ready boxes" shall be as provided by, or constructed to a design furnished by, the Bureau of Ships, Navy Department.

[Order 168, 6 F.R. 5882, Nov. 19, 1941]

§ 147.06-3 Storage of small-arms ammunition.

Small-arms ammunition having all the component parts necessary for one firing, all in one assembly, may be stowed in boxes or lockers in a location adjacent to the gun mounts, such location to be selected by the Navy Department. Boxes or lockers for the stowage of small-arms ammunition shall be as provided by, or constructed to a design furnished by, the Bureau of Ships, Navy Department.

[Order 168, 6 F.R. 5882, Nov. 19, 1941]

§ 147.06-4 Care of ammunition.

The loading, stowage, handling and use of all ammunition intended for the guns mounted on the vessel shall be under the control of the commander of the armed guard or other representative of the Navy Department.

[Order 168, 6 F.R. 5882, Nov. 19, 1941]

§ 147.06-5 Construction of magazines.

Magazines shall be constructed in accordance with specifications furnished by or approved by, the Bureau of Ships, Navy Department.

[Order 168, 6 F.R. 5882, Nov. 19, 1941]

FINDING AIDS

In addition to the following finding aids a subject index to the entire Code of Federal Regulations is published separately and revised annually.

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¹ For volumes containing text of Presidential Documents see Explanation in 1965 Supplement to Title 3.

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