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USG (United States)

Editorial Note:

For the reader's information, the following explanation of terms found in USG Variations are offered:

"HAZARDOUS MATERIAL". The U.S. Department of Transportation term for dangerous goods.

"HAZARDOUS SUBSTANCE". Any substance which, if spilled, would adversely affect the environment.

"HAZARDOWS WASTE". Any substance being disposed of which could adversely affect the environment.

"OVERPACK". An enclosure that is used by a single consignor to provide protection or convenience in handling of a package or to consolidate two or more packages. (Ref. 49 CFR 171.8).

"REPORTABLE QUANTITY". For a given substance, the minimum quantity that would adversely affect the environment significantly enough to warrant reporting. The requirement to report a spillage is indicated on the documentation and the package.

△ USG-01 Transport of dangerous goods by air must be in accordance with *United States Regulations* (49 CFR Parts 171 - 180) or the ICAO Technical Instructions as limited by 49 CFR 171.11. The requirements of 49 CFR 175 apply to all shipments offered for air transport to, from, or within the United States, including when the shipment is prepared in accordance with these Regulations.

When the *ICAO Technical Instructions* are used for consignments of dangerous goods, failure to comply with the *ICAO Technical Instructions* and all relevant U.S. variations is a violation of the United States Regulations.

Editorial Note:

The IATA Dangerous Goods Regulations are fully in compliance with ICAO Annex 18 and its associated Technical Instructions.

The appropriate national authority for the United States is:

Associate Administrator for Hazardous Materials Safety US Department of Transportation Research and Special Programs Administration Washington, D.C. 20590-0001 U.S.A.

English must be used for all required package markings and for the Shipper's Declaration for Dangerous Goods. Abbreviations may not be used unless they are specifically authorized by these Regulations or by 49 CFR 172, Subpart D (see 7.1 and 8.1).

□ A copy of the transport document or an electronic image thereof, must be retained by the shipper for not less than 375 days after the dangerous goods are accepted by the initial operator. Each shipping paper copy must include the date of acceptance by the initial operator, except that the date on the air waybill or bill of lading may be used in place of the date of acceptance by the initial carrier. For hazardous years after the waste material is accepted by the initial operator.

Note:

The United States' Regulations, as well as interpretations regarding their use, are available via the internet at http://hazmat.dot.gov/rules.htm. Questions regarding the regulations may be directed to the Office of Hazardous Materials Safety's Information Center at +1 (800) 467 4922, +1 (202) 366 4488, or by e-mail to infocntr@rspa.dot.gov

USG-02 In addition to the dangerous goods included in List 4.2 (List of Dangerous Goods) with the word "Forbidden" shown in columns I and J and K and L and with no A1 or A2 Special Provision indicated, any material forbidden for transport by the United States' Regulations is also forbidden for transport under any circumstances to, from or within the United States (see 49)CFR 173.21 and the Hazardous Materials Table in 49 CFR 172.101).

Note:

A list of materials forbidden from transport in 49 CFR 172.101 (e.g. spent oxygen generators) is available via the internet at http://hazmat.dot.gov/icaovar.htm

USG-03 For substances where A1 appears in Column M of Section 4.2, the substance may not be transported to, from, or within the United States aboard a passenger aircraft without the prior approval of the appropriate authority of the U.S. For substances where A2 appears in M of Section 4.2, the substance may not be transported to, from, or within the United States aboard a passenger or cargo aircraft without the prior approval of the appropriate authority of the U.S. (see USG-01). For substances where A109 appears in Column M of Section 4.2, the substance may only be transported to, from, or within the United States aboard a cargo aircraft with the prior approval of the appropriate authority of the U.S.

Oxygen generators, chemical, transported under UN 3356 also require approval for transport by cargo aircraft. Prototype lithium batteries and cells transported in accordance with special provision A88 and organic peroxides and self-reactive substances that are not identified by technical name in 49 CFR 173.225(b) must also be approved prior to transport.

USG-04 Substances subject to additional requirements for air transport to, from, or within the United States are described below. The additional requirements in III also apply to US carriers operating outside the US. (see 1.3.1):

I. Hazardous substances. When a substance, including its mixtures and solutions, listed in the Appendix A to 49 CFR 172.101 is offered for transport in a package in which the net quantity of the substance equals or exceeds the reportable quantity (RQ) indicated for the substance in the Appendix A, the substance, mixture or solution is considered a hazard-



- it is a petroleum product that is a lubricant or fuel; or
- it is in a concentration less than that shown in the following table based on the RQ specified for the material:

RQ Kilograms	Concentration by Weight	
	Percent	PPM
45.4	0.2	2,000.0
4.54	0.02	200.0
0.45	0.002	20.0

For mixtures of radionuclides see Note 7 to Appendix A to 49 CFR 172.101.

Hazardous substances, except for those that are hazardous wastes as defined in Section II below, must comply with the following requirements:

- (a) For a hazardous substance that is a dangerous good according to these Regulations other than under the Proper Shipping Names "Environmentally hazardous substance, liquid, n.o.s." or "Environmentally hazardous substance, solid, n.o.s.":
 - unless already included in the required shipping name, and except for radioactive materials in Class 7, the name of the hazardous substance shall be shown in parentheses, in association with the dangerous goods description on the Shipper's Declaration and in association with the Proper Shipping Name on package marking; and
 - the letters "RQ" shall be entered on the Shipper's Declaration either before or after the basic description and in association with the Proper Shipping Name required to be marked on the package.
- (b) For hazardous substances that do not meet any other definition of dangerous goods according to these Regulations:
 - the hazardous substance shall be shipped under the basic dangerous goods description "Environmentally hazardous substance, liquid, n.o.s., Class 9, UN 3082, III" or "Environmentally hazardous substance, solid, n.o.s., Class 9, UN 3077, III", as appropriate, and in accordance with the requirements of these Regulations applying to the shipment of goods under this description;
 - the package must meet all applicable General Packing Requirements of Subsection 5.0 of these Regulations that would apply to dangerous goods of Packing Group III;
 - 3. the letters "RQ" shall be entered on the Shipper's Declaration either before or after the

- basic description and in association with the Proper Shipping Name required to be marked on the package; and
- 4. the name of the hazardous substance shall be shown in parentheses, in association with the dangerous goods description on the Shipper's Declaration and in association with the Proper Shipping Name on package marking. If the material contains more than two hazardous substances, only the two hazardous substances having the lowest reportable quantities must be identified.

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Note:

The list of Hazardous Substances and the applicable RQ as shown in Appendix A to 49CFR 172.101 is available via the internet at:

http://hazmat.dot.gov/icaovar.htm

- II. Hazardous waste. A hazardous waste is any material that is subject to the hazardous waste manifest requirements of the United States Environmental Protection Agency (EPA) specified in 40 CFR Part 262. The following requirements apply to the transport of hazardous wastes:
 - (a) For a hazardous waste that is a dangerous good according to these Regulations other than under the Proper Shipping Names Environmentally hazardous substance, liquid, n.o.s. or Environmentally hazardous substance, solid, n.o.s.:
 - the word "Waste" must precede the Proper Shipping Name in the Shipper's Declaration and package markings; and
 - 2. the requirements of 49 CFR 172.205, with respect to the hazardous waste manifest apply.
 - (b) For hazardous wastes that do not meet any other definition of dangerous goods according to these Regulations:
 - the hazardous waste shall be shipped under the basic dangerous goods description "Waste Environmentally hazardous substance, liquid, n.o.s., Class 9, UN 3082, III" or "Waste Environmentally hazardous substance, solid, n.o.s., Class 9, UN 3077, III", as appropriate, and in accordance with the requirements of these Regulations applying to the shipment of goods under this description;
 - 2. the package must meet all applicable General Packing Requirements of Subsection 5.0 of these Regulations that would apply to dangerous goods of Packing Group III;
 - the requirements of 49 CFR 172.205 with respect to the hazardous waste manifest apply; and

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4. for those hazardous wastes that meet the definition of a hazardous substance, the letters "RQ" and the name of the hazardous substance in parentheses shall be shown in association with the basic description on the Shipper's Declarations and package markings.

Notes:

- Hazardous waste can only be transported within the United States by carriers who have obtained a Waste Transporter Identification Number from the Environmental Protection Agency (EPA).
- The assignment of substances described in I and II above to UN 3077 and UN 3082 is in accordance with Special Provision A97 of these Regulations.
- A list of Hazardous Wastes and the applicable RQ as shown in Appendix A to 49 CFR 172.101 is available via the internet at http://hazmat.dot.gov/icaovar.htm
- △ III. Other materials. Material which is not subject to the requirements of these Regulations but meets the definition of a hazard class in 49 CFR Parts 171–180, must be transported in accordance with those regulations. This includes but is not limited to liquids with a flash point (closed cup) greater than 60.5°C (141°F) but less than 93°C (200°F) when transported in packagings with a capacity greater than 450 L (110 U.S. gallons). These materials are classified as Combustible Liquids (see 49 CFR 173.120).

USG-05 An explosive article or substance may not be transported to, from, through or within the United States without prior approval by the appropriate authority of the US (see USG-01 Attention: Office of Hazardous Materials Exemptions and Approvals (DHM-30)). Such approval remains valid for subsequent transport of the article or substance provided there is no change in its composition, design or packaging.

Except as otherwise provided in U.S. regulations 49 CFR 172.320, each package containing an explosive article or substance must be marked with the EX number assigned in the approval for each article, substance or device contained in the package.

△ USG-06 Cylinders transported to, from or within the United States must be manufactured, inspected and tested in accordance with the applicable specifications given in 49 CFR 178, except that foreign cylinders received in the United States for charging may be transported for purposes of export from the United States in accordance with 49 CFR 173.301(j) (see Packing Instruction 200).

Portable tanks other than UN portable tanks manufactured outside of the United States that meet the applicable requirements of the UN Model Regulations must be designed and approved in accordance with the requirements of 49 CFR 178.270 through 178.277.

Aerosol containers larger than 120 mL capacity (4 fl oz) must be non-refillable metal receptacles. Aerosols must consist of a gas compressed, liquefied or dissolved under pressure, with the sole purpose of expelling a non-toxic (other than a Division 6.1 Packing Group III material) liquid, paste or powder and fitted with a self-closing release device allowing contents to be ejected by the gas.

USG-07 Lighters (cigarettes) or other similar devices containing flammable gas (e.g. lighters for fireplaces and torches) may not be transported to, from or within the United States unless the design of the device and its inner packaging have been examined by an approved testing agency and approved by the appropriate authority of the US (see USG-01).

An approval which was previously issued by the Bureau of Explosives (B of E) remains valid to the same extent as if it had been issued by the appropriate authority. Approval numbers issued by the B of E or the appropriate authority of the US must be marked on each package and noted on each Shipper's Declaration for Dangerous Goods.

USG-08 The transport of a liquid with a vapour inhalation toxicity meeting the criteria of Division 6.1, Packing Group I or a gas meeting the criteria of Division 2.3 is forbidden on passenger aircraft to, from or within the United States.

The transport of a liquid with a vapour inhalation toxicity meeting the criteria of Division 6.1, Packing Group I or a gas meeting the criteria of Division 2.3 on a cargo aircraft to, from or within the United States is subject to the following additional requirements:

- (a) Description: The description of the substance which appears on the Shipper's Declaration for Dangerous Goods must include the words "Toxic-Inhalation Hazard" or "Poison-Inhalation Hazard", except the word "Toxic" or "Poison" need not be repeated if it otherwise appears in the description; and
- (b) Marking: The packaging must be marked with the words "Inhalation Hazard" in association with required labels and any other markings required by these Regulations;
- (c) Labelling: The package must bear the Poison Inhalation Hazard Label (see 49 CFR 172.429) or the Poison Gas Label (see 49 CFR 172.416) as appropriate;
- (d) Packaging: Packaging must be in accordance with the requirements indicated for the liquid or gas in 49 CFR 172.101.

Note:

Many substances that are not listed specifically by name in 4.2, List of Dangerous Goods that are transported under an "n.o.s." entry may meet the above inhalation toxicity criteria. Furthermore, some listed substances also meet these criteria even though the class, division or subsidiary risk assignments identified for that substance in Columns C and D of 4.2, List of Dangerous Goods, may not so indicate. A list of these substances is available from the appropriate authority of the U.S. (see USG-01), Attention: Office of



Hazardous Materials Exemptions and Approvals, Dockets (DHM-30), Tel: +1 (202) 366 5046, Fax: +1 (202) 366 3753.

USG-09 Not used.

- ★ USG-10 The following additional requirements or limitations apply to the transport of radioactive material to, from or within the United States (see 9.1 and 10.3.4, 10.4.2, 10.5 and 10.8.1.2):
 - (a) Radioactive material is defined as any material having a specific activity greater than 70 kBq/kg (2 nCi/g). Other than excepted radioactive material, radioactive material may not be offered for transport aboard passenger aircraft unless the radioactive material is intended for use in, or incident to, research or medical diagnosis or treatment. For transport aboard a passenger aircraft of other than excepted packagings, the Shipper's Declaration for the radioactive material must contain a certification stating that the shipment contains radioactive material intended for use in, or incident to, research or medical diagnosis or treatment;
 - (b) No person may offer for transport aboard a passenger aircraft a package with a transport index greater than 3.0 or an overpack with a transport index greater than 3.0;
 - (c) No person may offer for transport plutonium aboard an aircraft, unless:
 - the plutonium is contained in a medical device designed for individual human applications,
 - the specific activity of the material containing the plutonium is less than 70 kBq/kg (2 nCi/g),
 - the plutonium is shipped in a single package containing no more than an A₂ quantity of plutonium in any isotope or form and is shipped in accordance with applicable provisions of these Regulations for Class 7 radioactive material, or
 - the plutonium is specifically authorized for air shipment by the appropriate authority of the U.S.
 - (d) For a package containing radioactive material with an activity greater than:
 - 1. $3,000 \times A_1$; or
 - 2. $3,000 \times A_2$; or
 - 3. 1,000 TBq (27,000 Ci), whichever is least,

the notation "Highway Route Controlled Quantity" must appear on the Shipper's Declaration;

- (e) A fissile material controlled shipment must be made:
 - on an aircraft with no other labelled radioactive material on board, or
 - 2. on a cargo aircraft consigned for exclusive use.

For all fissile material controlled shipments, specific arrangements must be made between the consignor and the operator with specific instructions issued with the shipping papers (see 9.3.10.5).

- (f) Packages in a fissile material controlled shipment and packages containing:
 - 1. $3,000 \times A_1$; or

- **2.** $3,000 \times A_2$; or
- 3. 1,000 TBg (27,000 Ci), whichever is least,

must bear the "Radioactive material, Class 7, Category III — Yellow label" (see 10.5.17 and Table 10.5.D).

(g) All Type B(U), Type B(M) and Fissile package designs must be certified and packages with a total transport index exceeding 200 may not be transported except under special arrangement approved by the U.S. Department of Transportation. Requests for package design certification and for approvals should be directed to the appropriate authority of the US (see USG-01):

> U.S. Department of Transportation Attn: Radioactive Materials Branch (DHM-23) Office of Hazardous Materials Technology Research and Special Programs Administration Washington, D.C. 20590-0001

(h) Except for low specific activity material and surface contaminated objects, activity limits for Type A and Type B packages shall be limited in accordance with 49 CFR 173.431. 49 CFR 173.431 and the Table of A₁ and A₂ values it references, 49 CFR 173.435, are available via the internet at: http://hazmat.dot.gov/radionuclide.pdf (see also Appendix G to these Regulations).

USG-11 A nonspillable wet electric storage battery may only be regarded as not subject to these Regulations if the battery and its outer packaging are plainly and durably marked "NONSPILLABLE" or "NONSPILLABLE BATTERY" and the battery meets the conditions for being regarded as not subject to these Regulations contained in Special Provision A67.

USG-12 On shipments to, from, within or transiting through the U.S., emergency response information as described below must be provided for all dangerous goods other than magnetized material (UN 2807), dangerous goods for which no Shipper's Declaration for Dangerous Goods is required and Other Regulated Material as defined in 49 CFR 173.144.

Telephone Number: The Shipper's Declaration for Dangerous Goods required by these Regulations must include an emergency response telephone number (including area codes and for international numbers for locations outside the U.S., the international access code and country and city codes needed to complete the call from within the U.S.) for use in the event of an incident involving the dangerous good(s). The number must be monitored at all times while the hazardous material is in transportation, including storage incident to transportation by a person who:

- is knowledgeable of the hazards and characteristics of the dangerous good(s) being transported;
- has comprehensive emergency response and accident mitigation information for the dangerous good(s); or
- has immediate access to a person who possesses such knowledge and information.



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For transport by cargo aircraft the following additional substances are also excepted from this variation:

- (i) Division 6.1 (poisonous) materials (except those labelled FLAMMABLE),
- (ii) Materials in Division 6.2 (etiologic or infectious substances),
- (iii) Class 3 (flammable liquid) materials with a flashpoint above 23°C (73°F) that do not meet the definition of another hazardous class.
- (e) In the case of damage to, or leakage from, a package containing infectious substances within the United States, the operator must notify the nearest FAA Civil Aviation Security office immediately, or they may notify the Centers for Disease Control (CDC) in Atlanta, Georgia, immediately at telephone number: +1 (404) 633 5313 (see 9.4.2).

USG-14 Not used.

USG-15 Except as provided for cylinders of compressed oxygen, no person may load or transport to, from or within the United States a package containing a dangerous good requiring an OXIDIZER label in an inaccessible cargo compartment that is not equipped with a fire or smoke detection system and a fire suppression system.

Cylinders of compressed oxygen must be transported in accordance with the following:

- (a) No more than a total of six cylinders of compressed oxygen may be stowed on an aircraft in cargo compartments not equipped with a fire or smoke detection system and a fire suppression system (Class D).
- (b) Except for oxygen cylinders allowed to be transported in the passenger compartment under the conditions given below, oxygen cylinders transported on passenger-carrying aircraft or in an inaccessible cargo location on a cargo-only aircraft must be stowed horizontally as close as practicable to the floor of the cargo compartment or unit load device.
- (c) When transported in a Class B compartment or its equivalent (i.e.; an accessible compartment equipped with a fire or smoke detection system), cylinders of compressed oxygen must be loaded in a manner that a crew member can see, handle and, when size and weight permit, separate the cylinders from other cargo during flight. No more than six cylinders of compressed oxygen and, in addition, one cylinder of medical-use compressed oxygen per passenger needing oxygen at destination with a rated capacity of 850 litres (30 cubic feet) or less of oxygen may be carried in a Class B aircraft cargo compartment or its equivalent.
- (d) Each cylinder must conform to the requirements identified in US variation USG-06 and when loaded into a passenger-carrying aircraft or in an inaccessible cargo location of a cargo-only aircraft must be placed in an overpack conforming to the performance criteria of Air

Transport Association (ATA) Specification 300 for Category I shipping containers.

A cylinder containing medical-use compressed oxygen, owned or leased by an aircraft operator or offered for transportation by a passenger needing it for personal medical use at destination, may be carried in the cabin of a passenger-carrying aircraft in accordance with the following provisions:

- (a) No more than six cylinders belonging to the aircraft operator and, in addition, no more than one cylinder per passenger needing the oxygen at destination, may be transported in the cabin of the aircraft;
- (b) The rated capacity of each cylinder may not exceed 850 litres (30 cubic feet);
- (c) Each cylinder must conform to the requirements identified in US variation USG-06 and must be overpacked. The overpack must conform to the performance criteria of Air Transport Association (ATA) Specification 300 for Category I;
- (d) Oxygen cylinders transported under these provisions must be included in the information provided to the pilot in command in accordance with 9.5 of these Regulations.

☐ USG-16 Air bag inflators, air bag modules and seat belt pretensioners may not be transported to, from or within the United States without prior approval by the appropriate national authority of the U.S. (see USG-01), Attention: Office of Hazardous Materials Exemptions and Approvals (DHM-30). Such approval remains valid for subsequent transport provided there is no change in its composition, design or packaging. Air bag inflators, modules and pretensioners that meet the criteria for a Division 1.4G explosive must be transported using the description Articles, pyrotechnic for technical purposes UN 0431. The dangerous goods transport document (Shipper's Declaration) must contain the EX number or product code for each approved inflator, module or pretensioner in association with the basic description required in 8.1.6.9.1. If product codes are used they must be traceable to the specific EX number assigned to the inflator, module or pretensioner, as applicable, the appropriate authority of the U.S. The EX number or product code is not required to be marked on the outside package.

VCG (Sri Lanka)

VCG-01 No aircraft operator shall transport dangerous goods by air to, from or over Sri Lanka without explicit approval in writing from the Director General of Civil Aviation, Sri Lanka.

VCG-02 Permission is usually granted for a specified period of time, subject to strict compliance with the ICAO Technical Instructions and any other conditions which the Director General of Civil Aviation deems necessary.

VCG-03 Application for permission shall be made to the Director General of Civil Aviation, Department of Civil Aviation, 64, Galle Road, Colombo-03, Sri Lanka, Fax: +94

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An emergency response telephone number is not required for dangerous goods in Limited Quantities as described in 2.8 and materials properly described under the Proper Shipping Names Battery powered equipment, Battery powered vehicle, Carbon dioxide, solid, Consumer commodity, Castor beans, flakes, meal or pomace, Dry ice, Engines, internal combustion flammable gas powered or flammable liquid powered, Refrigerating Machines, Vehicle (flammable gas powered) and Vehicle (flammable liquid powered).

Means of Compliance: The telephone number of an agency or organization may be used. However, a person listing the telephone number of an agency or organization as the emergency response telephone number must ensure that the agency or organization has current information on the dangerous good(s).

Documentation Requirements: The telephone number must be entered on the Shipper's Declaration for Dangerous Goods and its purpose clearly identified, e.g. "EMER-GENCY CONTACT: . . . ", either:

- 1. immediately following the description of the dangerous goods listed on the Shipper's Declaration; or
- if only one number applies to each dangerous good listed on the Shipper's Declaration, the information may be entered in a single prominent location, provided that the number is identified as the emergency response telephone number.

Emergency Response Information: Emergency response information relative to the dangerous goods being transported must be immediately available at all times the dangerous good is present. This information should be appropriate for use in emergency and accident response to an incident, including an incident occurring during ground operations and must include as a minimum:

- the description of the dangerous goods listed in accordance with 8.1.6.9.1, First sequence of these Regulations;
- 2. immediate hazards to health;
- 3. risks of fire or explosion;
- immediate precautions to be taken in the event of an accident or incident;
- 5. immediate methods for handling fires;
- initial methods for handling spills or leaks in the absence of a fire; and
- preliminary first aid measures.

Language: The information must be printed in English, available away from the package containing the dangerous goods and immediately accessible in the event of an incident. Methods of compliance include, but are not limited to:

- including the information on the Shipper's Declaration for Dangerous Goods;
- locating the information in a separate document such as a material safety data sheet which includes at least all of the information listed above; or

3. providing the information for use in conjunction with the Shipper's Declaration for Dangerous Goods (or aboard aircraft, in conjunction with the Information to Pilot-in-Command as required in Subsection 9.5 of these Regulations), in a separate document, such as the ICAO Emergency Response Guidance for Aircraft Incidents involving Dangerous Goods (Doc. 9481).

Note:

The standard international dialling code within the United States is "011".

△ USG-13 Operators must comply with the following:

- (a) A package prepared in accordance with these Regulations for transport to, from or within the United States must not be accepted unless the operator also ensures that the shipper has complied with all applicable United States variations indicated in these Regulations (see 9.1).
- (b) A copy of the transport document or an electronic image thereof, must be retained by the initial operator for not less than 375 days after the dangerous goods are accepted by the initial operator. Each shipping paper copy must include the date of acceptance by the initial operator. The date on the shipping paper may be the date a shipper notifies the air carrier that a shipment is ready for transportation, as indicated on the air waybill or bill of lading, as an alternative to the date the shipment is picked up or accepted by the carrier. For a hazardous waste, the transport document must be retained for three years after the waste material is accepted by the initial operator (see 9.8).
- (c) The notification to pilot-in-command must list, and provide the required information for, those additional materials considered to be dangerous goods under United States' regulations as indicated through United States variations (see 9.5.1.1).
- (d) Except for "Other Regulated Materials" as defined in 49 CFR 173.144, substances of Class 9, radioactive material, aircraft batteries transported as items of replacement, and those articles and substances considered to be dangerous goods under these Regulations but which are not subject to 49 CFR Parts 171-180, no more than 25 kg net weight of dangerous goods, and in addition thereto, 75 kg net weight of non-flammable gas, that are permitted to be carried aboard a passenger aircraft may be carried aboard an aircraft:
 - 1. in an inaccessible cargo compartment;
 - in any freight container within an accessible cargo compartment; or
 - 3. in any accessible cargo compartment of a cargo aircraft if the dangerous goods are loaded so as to be inaccessible unless in a freight container. Each package containing dangerous goods acceptable for cargo aircraft only must be loaded so that it is accessible during flight.



For transport by cargo aircraft the following additional substances are also excepted from this variation:

- (i) Division 6.1 (poisonous) materials (except those labelled FLAMMABLE),
- (ii) Materials in Division 6.2 (etiologic or infectious substances),
- (iii) Class 3 (flammable liquid) materials with a flashpoint above 23°C (73°F) that do not meet the definition of another hazardous class.
- (e) In the case of damage to, or leakage from, a package containing infectious substances within the United States, the operator must notify the nearest FAA Civil Aviation Security office immediately, or they may notify the Centers for Disease Control (CDC) in Atlanta, Georgia, immediately at telephone number: +1 (404) 633 5313 (see 9.4.2).

USG-14 Not used.

USG-15 Except as provided for cylinders of compressed oxygen, no person may load or transport to, from or within the United States a package containing a dangerous good requiring an OXIDIZER label in an inaccessible cargo compartment that is not equipped with a fire or smoke detection system and a fire suppression system.

Cylinders of compressed oxygen must be transported in accordance with the following:

- (a) No more than a total of six cylinders of compressed oxygen may be stowed on an aircraft in cargo compartments not equipped with a fire or smoke detection system and a fire suppression system (Class D).
- (b) Except for oxygen cylinders allowed to be transported in the passenger compartment under the conditions given below, oxygen cylinders transported on passenger-carrying aircraft or in an inaccessible cargo location on a cargo-only aircraft must be stowed horizontally as close as practicable to the floor of the cargo compartment or unit load device.
- (c) When transported in a Class B compartment or its equivalent (i.e.; an accessible compartment equipped with a fire or smoke detection system), cylinders of compressed oxygen must be loaded in a manner that a crew member can see, handle and, when size and weight permit, separate the cylinders from other cargo during flight. No more than six cylinders of compressed oxygen and, in addition, one cylinder of medical-use compressed oxygen per passenger needing oxygen at destination with a rated capacity of 850 litres (30 cubic feet) or less of oxygen may be carried in a Class B aircraft cargo compartment or its equivalent.
- (d) Each cylinder must conform to the requirements identified in US variation USG-06 and when loaded into a passenger-carrying aircraft or in an inaccessible cargo location of a cargo-only aircraft must be placed in an overpack conforming to the performance criteria of Air

Transport Association (ATA) Specification 300 for Category I shipping containers.

A cylinder containing medical-use compressed oxygen, owned or leased by an aircraft operator or offered for transportation by a passenger needing it for personal medical use at destination, may be carried in the cabin of a passenger-carrying aircraft in accordance with the following provisions:

- (a) No more than six cylinders belonging to the aircraft operator and, in addition, no more than one cylinder per passenger needing the oxygen at destination, may be transported in the cabin of the aircraft;
- (b) The rated capacity of each cylinder may not exceed 850 litres (30 cubic feet);
- (c) Each cylinder must conform to the requirements identified in US variation USG-06 and must be overpacked. The overpack must conform to the performance criteria of Air Transport Association (ATA) Specification 300 for Category I;
- (d) Oxygen cylinders transported under these provisions must be included in the information provided to the pilot in command in accordance with 9.5 of these Regulations.

☐ USG-16 Air bag inflators, air bag modules and seat belt pretensioners may not be transported to, from or within the United States without prior approval by the appropriate national authority of the U.S. (see USG-01), Attention: Office of Hazardous Materials Exemptions and Approvals (DHM-30). Such approval remains valid for subsequent transport provided there is no change in its composition, design or packaging. Air bag inflators, modules and pretensioners that meet the criteria for a Division 1.4G explosive must be transported using the description Articles, pyrotechnic for technical purposes UN 0431. The dangerous goods transport document (Shipper's Declaration) must contain the EX number or product code for each approved inflator, module or pretensioner in association with the basic description required in 8.1.6.9.1. If product codes are used they must be traceable to the specific EX number assigned to the inflator, module or pretensioner, as applicable, the appropriate authority of the U.S. The EX number or product code is not required to be marked on the outside package.

VCG (Sri Lanka)

VCG-01 No aircraft operator shall transport dangerous goods by air to, from or over Sri Lanka without explicit approval in writing from the Director General of Civil Aviation, Sri Lanka.

VCG-02 Permission is usually granted for a specified period of time, subject to strict compliance with the ICAO Technical Instructions and any other conditions which the Director General of Civil Aviation deems necessary.

VCG-03 Application for permission shall be made to the Director General of Civil Aviation, Department of Civil Aviation, 64, Galle Road, Colombo-03, Sri Lanka, Fax: +94

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