

FAA Flammable Liquids Shipping Guidance



Disclaimer: This guidance does not replace any regulation and is not considered training.

The carrier can be more restrictive than the regulation; therefore, we recommend contacting the carrier before shipping Hazardous Materials.

This document is for general guidance only and does not create any legally-enforceable rights or obligations.



SafeCargo

How to use this guide:



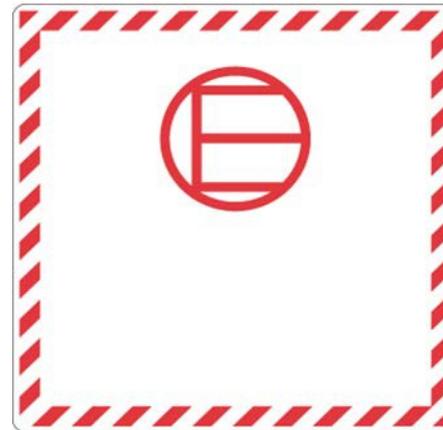
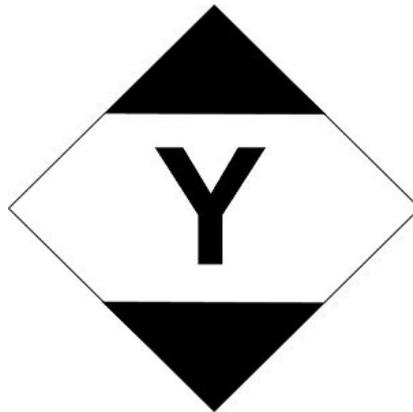
1. First – obtain a Safety Data Sheet and check Section 14 for United Nations (UN) Number.
 1. Look up the UN number in the [49 CFR 172.101 table](#).
 2. Scroll to page #3 of this guide and click on the icon corresponding to how you plan to ship your hazardous materials, i.e., limited quantities, consumer commodities, cargo, or passenger aircraft.
 3. Click on Maximum authorized net capacity of each inner packaging from column 9a (passenger aircraft or 9b (cargo aircraft) of the 101 Table.
 4. Lastly - you will be directed to the packing instruction and packaging demonstration.
- *Note: Some packages will need to include a [hazardous substance](#) marking per Table 1 to Appendix A—Hazardous Substances Other Than Radionuclides.



Federal Aviation
Administration



Step 1: Select how you plan to ship the item, i.e., Passenger Aircraft, Cargo Aircraft, as a limited quantity, or as an excepted quantity.



Federal Aviation
Administration



Passenger Aircraft

Step 2: Select the maximum net quantity per package from Column 9a of the 172.101 table.

Maximum net quantity per package from Column 9a of the [§172.101](#) table:

[Not greater than 0.5L](#)

[Greater than 0.5L, not greater than 1L](#)

[Greater than 1L, not greater than 5L](#)

[Greater than 5L, not greater than 60L](#)

[Greater than 60L, not greater than 220L](#)

[Greater than 220L](#)



Federal Aviation
Administration



Maximum authorized net capacity of each inner packaging	
Glass, earthenware or fiber inner packagings	Metal or plastic inner packagings
0.5L	0.5L
Label(s)	
<p>*Check for subsidiary labels Column (6) of §172.101, Hazardous Materials Table.</p> <div style="text-align: center;">  <p>FLAMMABLE LIQUID 3</p> </div>	
Markings: UN & *Orientation Arrows (two opposing sides)	
<p>*Inner packages >120 mL (4 fluid oz.)</p> 	<div style="text-align: center;">  <p>RQ *if applicable</p> </div> <p>UN Code for Fiberboard Box (4G) and Variable inner-container material and configuration (V) Solids or inner Packagings State/country authorizing mark</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">UN 4GV/X13/S/08/USA/+AQ2121</p> <div style="display: flex; justify-content: space-around; text-align: center;"> <div> <p>↑</p> <p>United Nations Packaging Symbol</p> </div> <div> <p>↑</p> <p>Packing Group tested and max. gross mass (kg)</p> </div> <div> <p>↑</p> <p>Last two digits of the year of manufacture</p> </div> <div> <p>↑</p> <p>Manufacturer certifying package</p> </div> </div>



See Completed Package



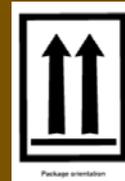
Federal Aviation Administration





Package orientation

Proper Shipping Name, Technical Name,
and UN ID number Consignee /
consignor name and address.



Package orientation



4GV/Y13/S/2020/USA/+FAA

INTERNATIONAL AIRFreight (IATA) REGULATIONS

Form IATA 1000 (Rev. 10/2018)

Shipper's Name: _____

Consignee: _____

Address: _____

City: _____ State: _____ Country: _____

Phone: _____

Product Name: _____

UN Number: _____

Quantity and Quantity of Containers: _____

Net Weight: _____

Gross Weight: _____

Volume: _____

Temperature: _____

Special Handling: _____

Remarks: _____

Signature: _____

Date: _____

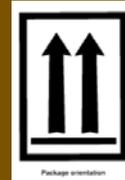




Package orientation

To : Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024
 From: Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024

UN1987, Alcohols,
 n.o.s., PG I



Package orientation



4GV/X13/S/2020/USA/+FAA

SHIPPER'S DECLARATION FOR HAZARDOUS MATERIALS

Name: _____
 Title: _____
 Company: _____

Address: _____
 City: _____ State: _____ Zip: _____

Emergency Contact: _____
 Telephone: _____

Signature: _____
 Date: _____

Proper Shipping Name	Quantity	Hazard Class	UN Number	PG	Label	Remarks

I hereby declare that the contents of this shipment are UN1987, Alcohols, n.o.s., PG I, and are properly packaged, labeled, and marked in accordance with the requirements of 49 CFR 173.155, 173.156, 173.157, 173.158, 173.159, 173.160, 173.161, 173.162, 173.163, 173.164, 173.165, 173.166, 173.167, 173.168, 173.169, 173.170, 173.171, 173.172, 173.173, 173.174, 173.175, 173.176, 173.177, 173.178, 173.179, 173.180, 173.181, 173.182, 173.183, 173.184, 173.185, 173.186, 173.187, 173.188, 173.189, 173.190, 173.191, 173.192, 173.193, 173.194, 173.195, 173.196, 173.197, 173.198, 173.199, 173.200, 173.201, 173.202, 173.203, 173.204, 173.205, 173.206, 173.207, 173.208, 173.209, 173.210, 173.211, 173.212, 173.213, 173.214, 173.215, 173.216, 173.217, 173.218, 173.219, 173.220, 173.221, 173.222, 173.223, 173.224, 173.225, 173.226, 173.227, 173.228, 173.229, 173.230, 173.231, 173.232, 173.233, 173.234, 173.235, 173.236, 173.237, 173.238, 173.239, 173.240, 173.241, 173.242, 173.243, 173.244, 173.245, 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Maximum authorized net capacity of each inner packaging

Glass, earthenware or fiber inner packagings	Metal or plastic inner packagings
1L	5L

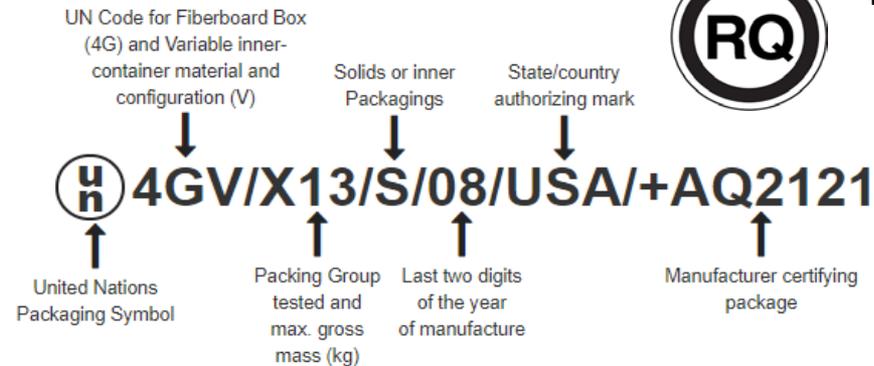
Label

***Check for subsidiary labels
Column (6) of §172.101,
Hazardous Materials Table.**



Markings

*Inner packages
>120 mL (4 fluid
oz.)



See Completed Package



Federal Aviation Administration



Maximum authorized net capacity of each inner packaging

Glass, earthenware or fiber inner packagings

Metal or plastic inner packagings

2.5L

10L

Label

***Check for subsidiary labels
Column (6) of §172.101,
Hazardous Materials Table.**



Markings

*Inner packages
>120 mL (4 fluid
oz.)



*if applicable



**See Completed
Package**



**Federal Aviation
Administration**



Maximum authorized net capacity of each inner packaging

Glass, earthenware or fiber inner packagings

Metal or plastic inner packagings

5L

25L

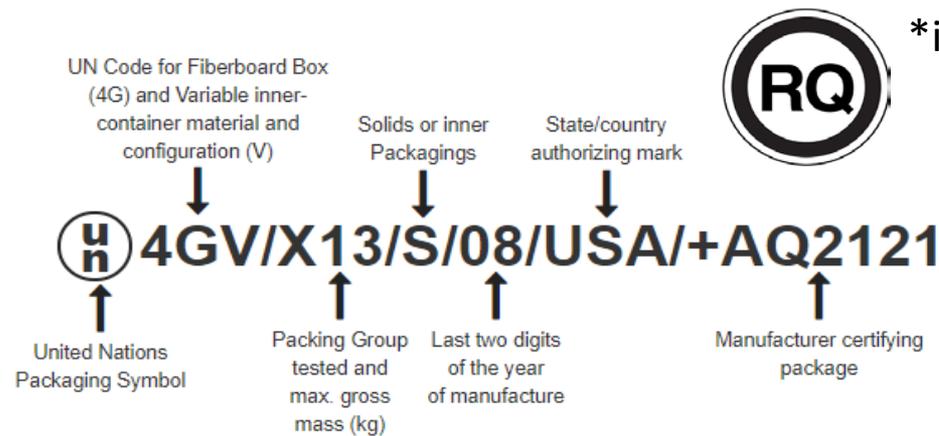
Label

***Check for subsidiary labels
Column (6) of §172.101,
Hazardous Materials Table.**



Markings

*Inner packages
>120 mL (4 fluid
oz.)



**See Completed
Package**



**Federal Aviation
Administration**





Package orientation

UN3528, Engine, internal combustion, flammable liquid powered, Class 3

To : Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024
From: Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024



Package orientation



4GV/Y13/S/2020/USA/+FAA

SHIPPER'S DECLARATION FOR HAZARDOUS MATERIALS	
Name:	Shipper's Name
Address:	Address
Phone:	Phone
Emergency Contact:	Emergency Contact
Material Name:	Material Name
Quantity:	Quantity
UN Number:	UN Number
HAZARDOUS CLASSIFICATION:	HAZARDOUS CLASSIFICATION
Proper Shipping Name:	Proper Shipping Name
Quantity and Concentration:	Quantity and Concentration
Labels and Markings:	Labels and Markings
Special Handling Instructions:	Special Handling Instructions
Signature:	Signature
Date:	Date

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.



Cargo Aircraft

Maximum net quantity per package from Column 9b of the [§172.101](#) table:

[Not greater than 2.5L](#)

[Greater than 2.5L. not greater than 30L](#)

[Greater than 30L, not greater than 60L](#)

[Greater than 60L, not greater than 220L](#)

[Greater than 220L](#)



Federal Aviation
Administration





Package orientation

UN1263, Paint, flammable, corrosive, Class 3(8), PGI

To : Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024
From: Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024



Package orientation

Subsidiary Hazard



4GV/X13/S/2020/USA/+FAA

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.



Maximum authorized net capacity of each inner packaging

Glass, earthenware or fiber inner packagings	Metal or plastic inner packagings
2.5L	2.5L

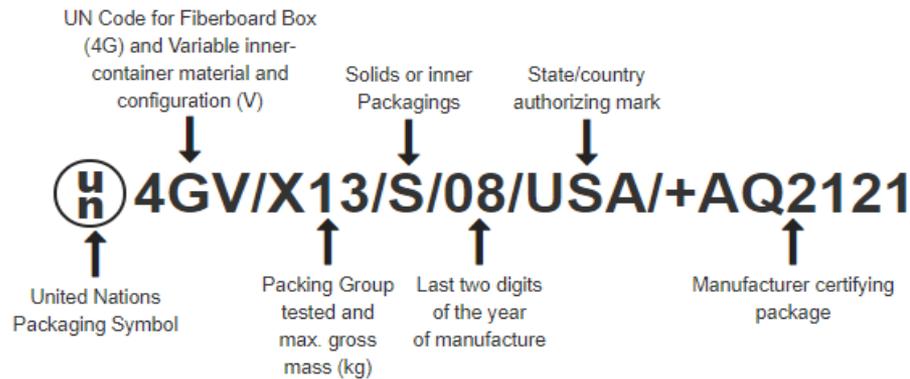
Label

***Check for subsidiary labels
Column (6) of §172.101,
Hazardous Materials Table.**



Markings

*Inner packages
>120 mL (4 fluid
oz.)



*if applicable



See Completed Package



Federal Aviation Administration

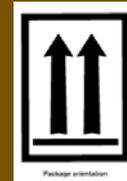




Package orientation

To : Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024
From: Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024

UN1263, Paint, Class 3, PGI



Package orientation



4GV/X13/S/2020/USA/+FAA

HAZARD COMMUNICATION FOR SHIPPERS GUIDE

Page 1 of 2
Revised 1/2018

1. Identification

2. Description of the hazard class or hazard class

3. Hazardous materials table

4. Additional information

5. Emergency response information

Proper Shipping Name	UN ID Number	Hazard Class or Division	Packing Group	Quantity		Remarks
				Net	Gross	

6. Additional information

7. Other information

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.





Package orientation

To : Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024
 From: Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024

UN1263, Paint, Class 3, PGII



Package orientation



4GV/Y13/S/2020/USA/+FAA

HAZARD COMMUNICATION FOR SHIPPERS GUIDE

Page 1 of 2
 Revised/Revised Edition: 01/2016

HAZARDOUS MATERIALS

Hazardous Goods Identification		Quantity	Weight	Volume	Net Weight	Net Volume	Net Content
Proper Shipping Name	UN ID No.	Class	Subclass	Category	Net Weight (kg)	Net Volume (L)	Net Content (L)

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.





Package orientation

To : Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024
 From: Federal Aviation Administration (FAA)
 470 L'Enfant Plaza East
 Washington, DC 20024

UN1263, Paint, Class 3, PGIII



Package orientation



4GV/Y13/S/2020/USA/+FAA

HAZARD COMMUNICATION FOR SHIPPERS GUIDE

Page 1 of 2
 Revised/Revised Edition: 01/2016

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS IDENTIFICATION	HAZARDOUS MATERIALS CLASSIFICATION	HAZARDOUS MATERIALS DESCRIPTION	HAZARDOUS MATERIALS QUANTITY	HAZARDOUS MATERIALS LOCATION	HAZARDOUS MATERIALS WEIGHT	HAZARDOUS MATERIALS VOLUME	HAZARDOUS MATERIALS TEMPERATURE	HAZARDOUS MATERIALS PRESSURE	HAZARDOUS MATERIALS OTHER INFORMATION

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.



Limited Quantities

Select Packing Group:



Packing Group	PG I	PG II	PG III
Danger	GREAT	MEDIUM	MINOR
Drop Test	1.8m	1.2m	.8m
Flashpoint Boiling Point	FP <61°C BP <35°C	FP <23°C BP >35°C	FP 23-61°C BP >35°C



Packing Group I Flammable Liquids Are Forbidden



Federal Aviation
Administration



Glass, earthenware or fiber inner packagings	Metal or plastic inner packagings	authorized net quantity of each outer package	Total Gross Mass Per Package
PG II: 0.5L	PG II: 0.5L	PG II: 1L*	30 kg

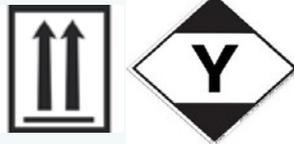
*Maximum net quantity per outer package with corrosive subsidiary risk (e.g., UN2924, UN3286) is 0.5L. For Class 3 base materials as part of a Polyester resin kit (UN3269), see §173.165 of this part for additional requirements, as applicable. Inner packaging limit for UN3269 base material is 1.0 L. For Fuel cell cartridges containing flammable liquids (UN3473), see §173.230 of this part.

Labels

*Check for subsidiary



Markings



Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.

**Orientation arrows are not required on packages containing liquid hazardous materials in inner packagings of 120 mL (4 fluid oz.) or less when packed with sufficient absorption material between the inner and outer packagings to completely absorb the liquid contents.



See Completed Package



Federal Aviation Administration



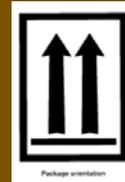


Package orientation

UN1263, Paint, Class 3, PGII



To : Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024
From: Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024



Package orientation

HAZARD INFORMATION FOR AIRCRAFT CARGO		No. of Pages: _____	
Page: _____		Project/Reference Number: _____	
Origin: _____		Destination: _____	
The information on this label is the property of the Department of Transportation. It is loaned to you for your use only. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the Department of Transportation.		This label is to be used in all instances with the applicable hazard labels. It is not to be used in conjunction with other hazard labels. It is not to be used in conjunction with other hazard labels.	
HAZARD IDENTIFICATION		HAZARD CLASSIFICATION	
The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____		The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____	
NATURE AND QUANTITY OF DANGEROUS GOODS		HAZARD CLASSIFICATION	
The quantity and nature of the dangerous goods are: _____ The quantity and nature of the dangerous goods are: _____ The quantity and nature of the dangerous goods are: _____ The quantity and nature of the dangerous goods are: _____		The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____ The hazard class and division number for this material is: _____	
Additional Handling Information		Additional Handling Information	
This Emergency Contact No. is: _____ This Emergency Contact No. is: _____ This Emergency Contact No. is: _____ This Emergency Contact No. is: _____		This Emergency Contact No. is: _____ This Emergency Contact No. is: _____ This Emergency Contact No. is: _____ This Emergency Contact No. is: _____	

Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.



Glass, earthenware or fiber inner packagings	Metal or plastic inner packagings	authorized net quantity of each outer package	Gross Mass Per Package
PG III: 2.5L*	PG III: 5.0L*	PG III: 10L*	30 kg
*Corrosive subsidiary risk (e.g., UN2924) or toxic (e.g., UN1992) is 1L	*Corrosive subsidiary risk (e.g., UN2924) or toxic (e.g., UN1992) is 1L		

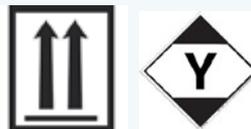
*Maximum net quantity per outer package with corrosive subsidiary risk (e.g., UN2924) is 1L and toxic subsidiary risk (e.g., UN1992) is 2L. For Class 3 base materials as part of a Polyester resin kit (UN3269), see §173.165 of this part for additional requirements, as applicable. Inner packaging limit for UN3269 base material is 1.0 L.

Labels

*Check for subsidiary.



Markings



Proper Shipping Name, Technical Name, and UN ID number Consignee / consignor name and address.

**Orientation arrows are not required on packages containing liquid hazardous materials in inner packagings of 120 mL (4 fluid oz.) or less when packed with sufficient absorption material between the inner and outer packagings to completely absorb the liquid contents.



See Completed Package



Federal Aviation Administration



Excepted Quantities	Inner packaging limits	authorized net quantity of each outer package (liquids)	authorized net quantity of each outer package (solids)
Packing Group I	30 g (1 ounce) or 30 mL (1 ounce) for solids or liquids	300 mL (0.08 gallons)	300 g (0.66 pounds)
Packing Group II		500 mL (0.1 gallons)	500 g (1.1 pounds)
Packing Group III		1 L (0.2 gallons)	1 kg (2.2 pounds)

Training

Each person who offers or transports excepted quantities of hazardous materials must know about the requirements of this section.

Shipping Papers

For transport by air, a shipping paper is not required, except that, if a document such as an airwaybill accompanies a shipment, the document must include the statement “Dangerous Goods in Excepted Quantities” and indicate the number of packages.

Marking



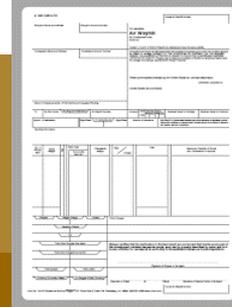
See Completed Package



Federal Aviation Administration



Shipping paper not required if accompanied by a document, it must include **“Dangerous Goods in Excepted Quantities”** and indicate the number of packages.



To : Federal Aviation Administration (FAA)
470 L'Enfant Plaza East
Washington, DC 20024
From: Federal Aviation Administration
(FAA)
470 L'Enfant Plaza East
Washington, DC 20024

