

SHIPPING DRY ICE

Introduction

Many perishable items, such as medical shipments or non-hazardous chemicals are shipped with dry ice as a refrigerant. As long as the dry ice is not chilling a dangerous good (as defined by the U.S. Department of Transportation and the International Air Transport Association), the procedures for shipping are straightforward and easy. Neither shipper's declaration form nor dangerous goods charges are required (However, dry ice surcharge will be applied).

Before You Prepare Your Shipment

When shipping internationally, call your local FedEx customer service number to check commodity acceptability by service in combination with the destination city/postal code/country. FedEx does not offer replenishment of dry ice during transportation so the sender should include enough dry ice to last until the package has reached its destination.

How to Prepare Dry Ice Shipment

1. Package

- Dry ice releases carbon dioxide gas which can build up enough pressure to rupture the packaging. You must ensure the packaging you use allows the release of this pressure to prevent rupturing the package. For example; do not use steel drums or jerricans as outer packaging, and do not place dry ice within sealed plastic bags.
- Use good quality fiberboard (corrugated cardboard), plastic or wooden boxes. FedEx branded packaging may not be used.
- A layer of Styrofoam within a box works well as insulation. Ensure the Styrofoam IS NOT sealed to be airtight.
- The maximum amount of dry ice per package is 200kg.

2. Label *Please refer to the attached sample

A Class 9 label is required. Do NOT write inside the diamond border of the label.

*Class 9 labels (and FedEx Express Dry Ice labels) with or without the horizontal line are both allowed.

You can use attached Class 9 label sample but DO NOT print it in reduced size.

Minimum dimensions: 100X100mm, Symbol (Seven vertical stripes in upper half): Black, Background: White

3. Marking *Please refer to the attached sample

The following package markings are required (This information can be marked on the package itself with a magic marker or pen):

1. Dry Ice (or Carbon Dioxide Solid)
2. UN 1845
3. The net quantity of dry ice in the package or overpack, in kilograms (1kg=2lb).
4. The name and address of both the sender and recipient.

4. Documentation

- 1) Air Waybill *Please refer to the attached sample

Use FedEx Expanded Service International Air Waybill for shipping dry ice.

- In addition to a specific and detailed commodity description, dry ice information (proper shipping name, UN number, the number of packages and net quantity of dry ice in kilograms) is required.
(example) HUMAN SERUM (NOT RESTRICTED, NON INFECTIOUS, LABORATORY USE ONLY)
UN1845, DRY ICE, 1 x 10kg
- In the Special Handling section, check “Yes, Shipper’s Declaration not required” and “Dry Ice” then indicate the number of packages and the net quantity of dry ice in kilograms.

2) Commercial Invoice *Please refer to the attached sample

A commercial invoice is the main document used by customs officials for control, valuation and duty determination. Even if your shipment contains only samples or research materials and it is not for resale, you must state declared value for customs with the appropriate country currency. You must submit three signed commercial invoices. You can download a blank commercial invoice from the following site:

<https://www.fedex.com/content/dam/fedex/apac-asia-pacific/downloads/fedex-commercial-invoice-instructions-jp.pdf>

3) Other Documentation

① Seiyakusho (Letter of Assurance)

If your shipment contains biopolymers such as anti-body, enzymes and nucleic acid, we recommend you to attach a letter of assurance stating the end-use and end-users, to help prevent Japan Customs clearance delays,

Currently, there are no problems concerning human serum and blood for customs clearance. Please refer to the following site for a sample and blank form. Only a Japanese version of this form is available and it is not a standard or official format:

<https://www.fedex.com/content/dam/fedex/apac-asia-pacific/downloads/fedex-package-contract-ja-jp.pdf>.

(Japanese only)

② Export License

Items which include viruses, bacterium, toxins etc. which are subject to the export control order may not be exported without permission from MITI (the Ministry of Economy, Trade and Industry) For details from Security Export Control Policy Division, Trade Control Department, MITI, visit:

<http://www.meti.go.jp/policy/anpo/englishpage.html>

③ Material Safety Data Sheet (MSDS)

If your shipment contains chemicals, we recommend you to attach a MSDS in English to your shipment. The MSDS for customs clearance purpose is very useful to make appropriate classification of the product.

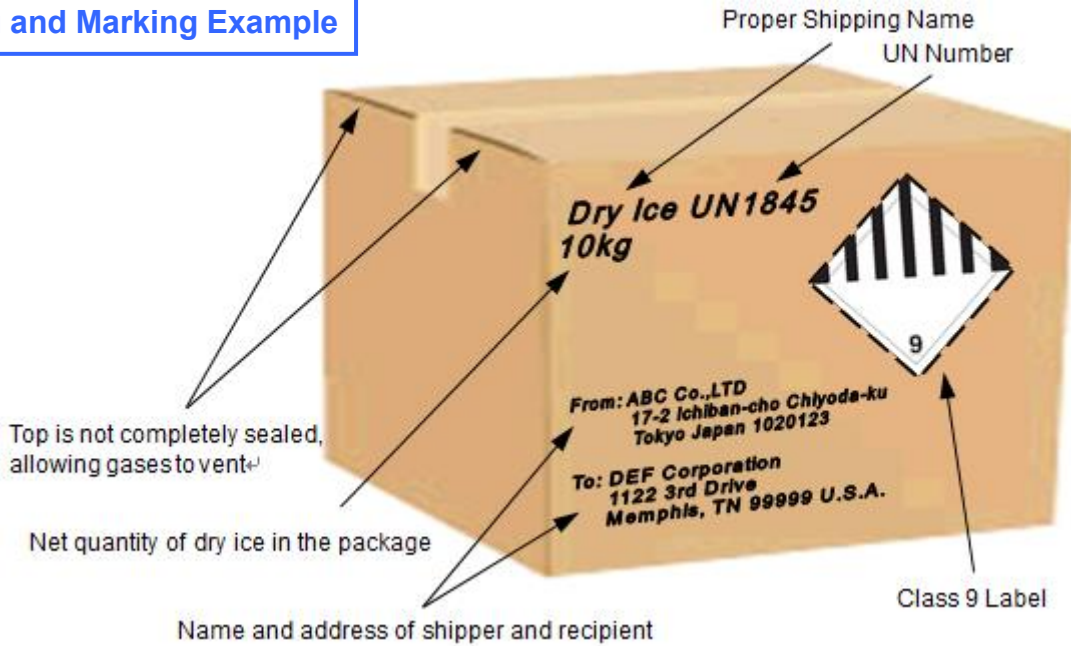
5. Helpful Resources

- When shipping dry ice, the shipment must be prepared by a person trained in the Dangerous Goods regulations. For further information, please refer to the link below:
<http://www.iata.org/training/subject-areas/Pages/cargo.aspx>
- If you have questions about the requirements for your dry ice shipment, call our Customer Service team at 0120-003200.

DISCLAIMER:

Proper training is required under federal, state and/or international regulations to handle, ship, package or transport dangerous goods and/or hazardous materials. FedEx Express provides materials and advice as a courtesy, to be used as guidelines to assist properly trained shippers. The information provided by FedEx Express in no way alters, satisfies or influences any federal, state or international governmental requirements. The information provided does not meet the training requirements as required by regulations, including DOT 49 C.F.R. The study and/or use of this information does not qualify an individual to prepare, package, transport or otherwise handle dangerous goods or hazardous materials. The information contained in this document is subject to change or update due to changing government regulations. The user of this information assumes responsibility for complying with all applicable laws and regulations regarding the shipment of Dangerous Goods. FedEx Express shall not be held responsible for any loss, injury and/or damage caused by errors, omissions, misprints or misrepresentations of the contents of this document or for any unauthorized or inappropriate use.

Packing and Marking Example



Additional marking as "Exempt human specimen" is required for patient specimens for which there is minimal likelihood that pathogens are present. To view detailed packaging guideline for clinical samples, please refer to the following site:

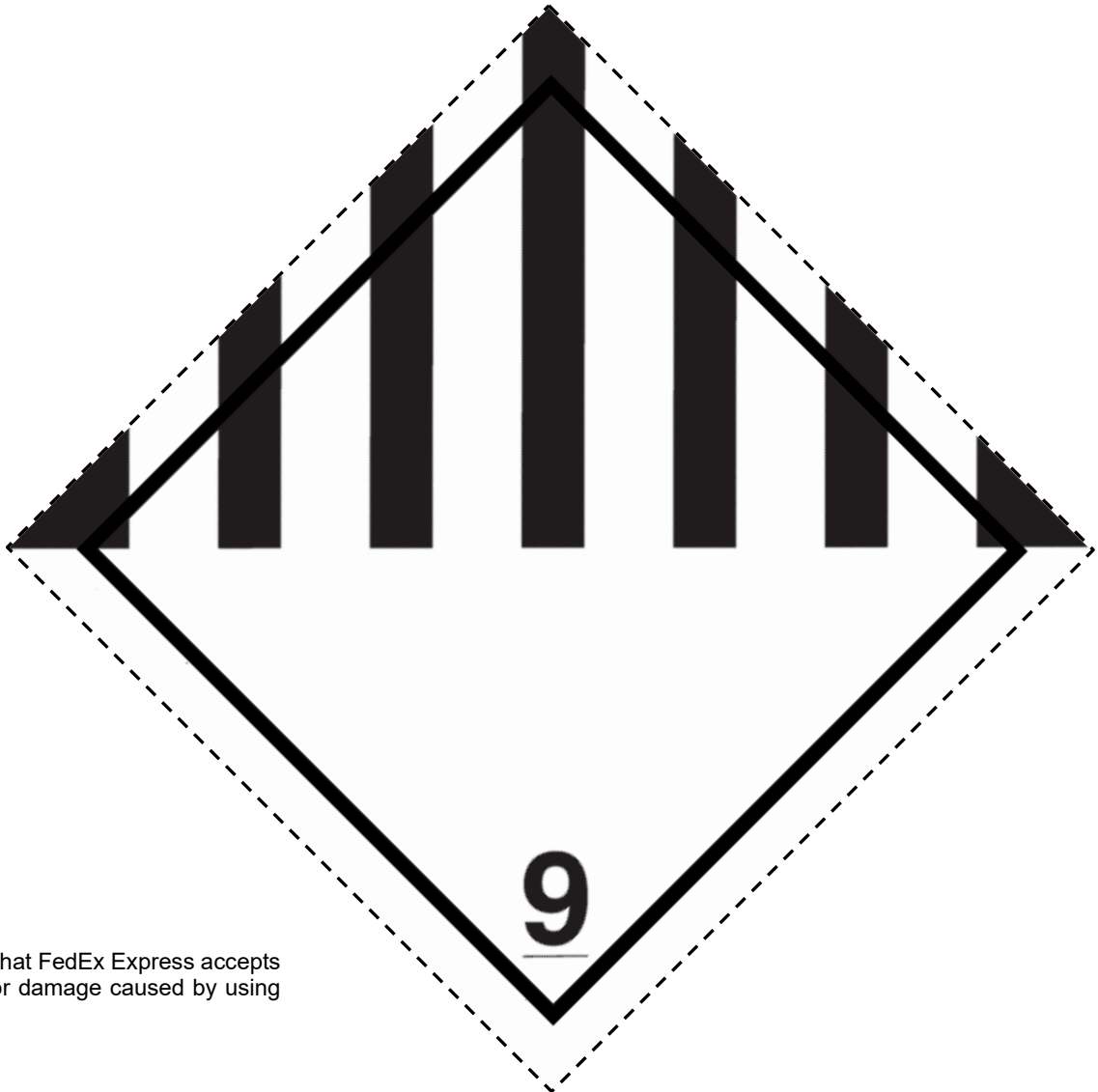
<http://images.fedex.com/downloads/shared/packagingtips/howtopack.pdf>

Class 9 Label Example

Minimum dimensions : 100X100mm

Symbol (Seven vertical stripes in upper half): Black, Background: White

The label below can be printed and affixed to the package. DO NOT print in reduced size.



Please understand that FedEx Express accepts no liability for loss or damage caused by using this data.

Expanded Service International Air Waybill

How to Complete the FedEx Expanded Service International Air Waybill

Use FedEx Expanded Service International Air Waybill for shipping dry ice. When completing a FedEx Expanded Service International Air Waybill, please type or print clearly, pressing hard with a ball-point pen and complete in English.

1 **Sender Information**

Add your address details, phone and FedEx account number.

2 **Recipient**

For reliable delivery, full and clear details are imperative.

3 **Shipment Information**

- Weight – enter the total weight of your shipment including packaging.
- DIM - enter shipment dimensions.
- Country of Manufacture - for every commodity in your shipment
- Harmonized Code - enter the Harmonized System Tariff Number for each commodity in the shipment.
- Commodity Description: Be specific and detailed. List each commodity separately. **The following information are required for shipments of dry ice when refrigerating non-dangerous goods: “UN1845, DRY ICE, number of packages and dry ice amount in kilograms”**
Use the Commercial Invoice for any description details that do not fit on the air waybill.
- Total Declared Value for Customs (Declaration to Customs for determination of applicable duties and taxes): Enter the sales price or fair market value of your shipment (even if not for resale). The amount must be: (a) equal to or greater than the Total Declared Value for Carriage, and (b) equal to the total amount shown on your Commercial Invoice.
- Total Declared Value for Carriage (declaration to FedEx increasing FedEx limit of liability): Unless you specify a Total Declared Value for Carriage, FedEx liability for loss, damage or delay is limited to US\$20.00 per kilogram as provided in the Summary of Terms and Conditions on the reverse side of the Air Waybill. If you specify a Total Declared Value for Carriage and pay a surcharge, FedEx liability is increased to the declared amount, subject to the FedEx International Service Terms and Conditions.

4a **Express Package Services**

Indicate your choice of service. If no service is marked, we will send your shipment via FedEx International Priority.

4b **Express Freight Service**

Indicate your choice of service here if your package is over 150lbs/68kg. Freight shipments must be booked in advance; write booking number in space provided.

5 **Packaging**

Indicate your choice of packaging.

6a **Special Handling**

Tick the appropriate box to choose the special service needed. Indicate whether your shipment contains dangerous goods or dry ice by ticking the appropriate box. **If dry ice is used for refrigerating non-dangerous goods, tick “Yes, Shipper’s Declaration not Required” and “Dry Ice” and indicate number of packages and net quantity of dry ice in kilograms.**

6b **Broker Selection**

Fill in the details if you select a broker other than FedEx.

7a **Payment - Bill Transportation Charges**

Select a method of payment and provide the appropriate FedEx account number or credit card number. If recipient or third party fails to pay transportation charges, the sender is responsible for payment.

7b **Payment - Bill Duties and Taxes**

Any international shipment can be subject to duties and taxes at destination. If the sender fails to indicate on the Air Waybill the payer of duties and taxes, the recipient will automatically be billed for such charges. If the recipient or any third party indicated by the sender on the Air Waybill to pay the duties and taxes fails to do so, the shipper is responsible for payment.

8 **Your Internal Billing Reference**

To help with your records, use this optional area for your internal shipping numbers or codes. We'll print the first 24 characters on your invoice.

9 **Additional Information**

Please sign on the Sender's Acknowledgment.

FedEx Expanded International Air Waybill Sample

FedEx Express *Expanded Service International Air Waybill*
 For Japan export only including express freight services, dangerous goods, and broker select.

1 From Please print in English and your hand.
 Date **07/26/2013** Sender's FedEx Account Number **1234-5678-9**
 Sender's Name **TARO YAMADA** Phone **03-9876-5432**
 Company **ABC&D ASSOCIATES**
 Address **100-100 MARUNOUCHI 1-CHOME**
 Address
 City **CHIYODA-KU** Prefecture **TOKYO**
 Country **JAPAN** Postal Code **100-0005**

2 To Please print in English and your hand.
 Recipient's Name **MR. JOHN SMITH** Phone **123-456-7890**
 Company **XYZ LABORATORIES**
 Address **1234 ANY STREET**
 Address
 City **ANYTOWN** State/Province **TX**
 Country **USA** ZIP Postal Code **75000-0001**
 Recipient's Tax ID Number for Customs Purposes
 e.g. 357990AWUNCEP6N8L or as locally required.

3 Shipment Information
 Total Packages **1** Total Weight **11** kg DIM **30/40/30** cm

Commodity Description <small>DETAIL REQUIRED</small>	Harmonized Code	Country of Manufacture	Value for Customs <small>REQUIRED</small>
HUMAN SERUM, NOT RESTRICTED (NON INFECTIOUS, LABORATORY USE ONLY)		JAPAN	¥1,000
UN1845, DRY ICE			
1X10kg			
Total Declared Value for Customs (Specify Currency) JYE			¥1,000

Note: Unless you specify a FedEx declared value for Customs purposes, FedEx liability for loss, damage, or delay is limited to \$2000 per shipment as provided in the Summary of Terms and Conditions for the service with this Air Waybill. It may vary in local countries. Value for Customs purposes is a maximum. No FedEx liability for loss or damage is provided in the absence of a value declared on this FedEx International Air Waybill. Please see our Conditions.

For Completion Instructions, see back of fourth page.
Questions?
 Go to our Web site at fedex.com/jp
 or
 call customer service toll free: 0120-0C3200.
 (From cellular phone: 043-298-181E.)

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
 Non-Negotiable International Air Waybill • ©2002-2005 FedEx

Sender's Copy

The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service Packages up to 68 kg
 FedEx Intl. Priority FedEx Intl. First Available to select locations. **4a**
Highest rates apply.
 _____ FedEx Intl. Economy FedEx Envelopes and FedEx Pak not available.

4b Express Freight Service Packages over 68 kg
 FedEx Intl. Priority Freight FedEx Intl. Economy Freight **4b**

5 Packaging *Basis unique format boxes with special pricing and provided by FedEx for FedEx Int. Please refer to our website for details.
 FedEx Envelope FedEx Pak FedEx Box FedEx 10kg Box* FedEx 25kg Box **5**
 Other **carton box**

6a Special Handling
 HOLD at FedEx Location SATURDAY Delivery Available for select locations. Available for FedEx Int. Priority and FedEx Int. Priority Freight only. **6a**
 Does this shipment contain dangerous goods? No Yes: As per attached Shipper's Declaration Yes Shipper's Declaration not required Dry Ice Dry Ice 3, UN 1845 **1** x **10** kg **6a**
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. Cargo Aircraft Only

6b Broker Selection Optional Intl. Broker Select To specify a broker other than FedEx. **6b**
 Broker's Name _____
 City / State / Province / Country _____
 ZIP / Postal Code REQUIRED _____ Phone _____

7a Payment & Transportation charges to: Enter FedEx Acct. No. or Credit Card No. below. **7a**
 Sender Acct. No. in Section 1 below Recipient Third Party Credit Card Cash/Check/Cheque
 FedEx Acct. No. _____
 Credit Card No. _____
 Credit Card Exp. Date _____

7b Payment & Billing and Access to: All shipments may be subject to Customs charges, which FedEx does not estimate prior to shipment. **7b**
 Sender Acct. No. in Section 1 below Recipient Third Party Enter FedEx Acct. No. below.

8 Your Internal Billing Reference Third characters will appear **8**
 OPTIONAL _____

9 Additional Information **9**
 By using this Air Waybill, you agree that certain international treaties, including the Warsaw Convention as amended, the Air Waybill, and/or the FedEx Terms and Conditions may apply to this shipment and our liability for damage, loss, or delay. For a copy of the FedEx Terms and Conditions, please contact FedEx Customer Service. _____ makes representation.
 Sender's Acknowledgment: *Taro Yamada*
 This is not authorization to deliver this shipment without recipient signature.

For questions and online shipping, go to fedex.com/jp

FedEx Tracking Number **1234-5678-9010** Form ID No. **0417**

526 Part 526/294 • Rev. Date 12/05
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Commercial Invoice Sample

COMMERCIAL INVOICE											(Please complete in English print)
INTERNATIONAL AIR WAYBILL NO.		1234-5678-9010				(NOTE: All shipments must be accompanied by a FedEx International Air Waybill & four duplicate copies of CI.)					
DATE OF EXPORTATION					SHIPPER'S EXPORT REFERENCES						
JULY 26, 2013											
SHIPPER / EXPORTER					CONSIGNEE						
TARO YAMADA ABC&D ASSOCIATES 100-100 MARUNOUCHI 1-CHOME CHIYODA-KU TOKYO 100-0005 JAPAN 03-9876-5432					MR. JOHN SMITH XYZ LABOLATORIES 1234 ANY STREET ANY TOWN TX 75000-0001 123-456-7890						
COUNTRY OF EXPORT					IMPORTER - IF OTHER THAN CONSIGNEE						
Japan											
REASON FOR EXPORT											
Other (see Description of Goods)											
COUNTRY OF ULTIMATE DESTINATION											
USA											
COUNTRY OF ORIGIN	MARKS/ NO'S.	NO. OF PKGS	TYPE OF PACKAGING	FULL DESCRIPTION OF GOODS	HS CODE	QTY.	UNIT OF MEASURE	WEIGHT	UNIT VALUE	TOTAL VALUE	
Japan	As Addressed	1	Carton Box	HUMAN SERUM 10ml Each in Plastic Vials For Diagnostic Testing Laboratory Use Only Non Infectious No Commercial Value Value for Customs Purpose Only Not For Resale		10	Piece	500 g	JYE 100	JYE 1000	
		TOTAL PKGS						TOTAL WEIGHT	CURRENCY	TOTAL INVOICE VALUE	
		1						500 g	JYE	1000	
								Payment Method <input type="checkbox"/> L/C <input type="checkbox"/> T/T <input type="checkbox"/> Others	Check one <input checked="" type="checkbox"/> E.O.B. <input type="checkbox"/> C & F <input type="checkbox"/> C.I.F.		
I DECLARE ALL THE INFORMATION CONTAINED IN THE INVOICE TO BE TRUE AND CORRECT.											
SIGNATURE OF SHIPPER/EXPORTER											
Taro Yamada			Manager			July 26, 2013					
NAME (PLEASE PRINT)			TITLE (PLEASE PRINT)			DATE					