

A form titled "SHIPPER'S DECLARATION FOR DANGEROUS GOODS" with various fields for shipping information, hazard details, and recipient information. The form is bordered by red and white diagonal stripes.

Samples shipment regulations

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WHO Guidance on regulations for the Transport of Infectious Substances

<http://www.who.int/csr/bioriskreduction/biosafety/en/index.html>

WHO:

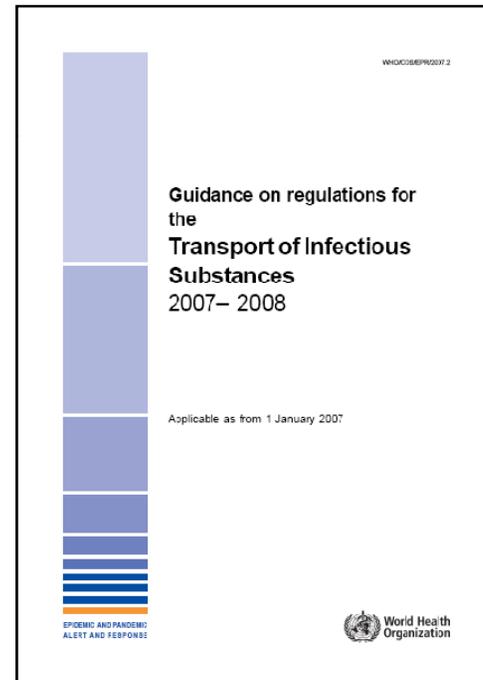
Guidance on regulations for the Transport of Infectious Substances

-Updated every two years

-Currently: Yr: 2009-2010

-Downloadable at **no cost**

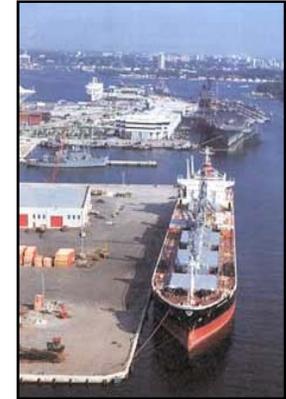
http://www.who.int/csr/resources/publications/biosafety/WHO_CDS_EPR_2009/en/index.html



Transport regulations

Where do they come from? Who develops them?

- National transport regulations
- International modal transport regulations
 - Air transport (ICAO, IATA)
 - Rail and road traffic (ADR)
 - Maritime transport (IMO)

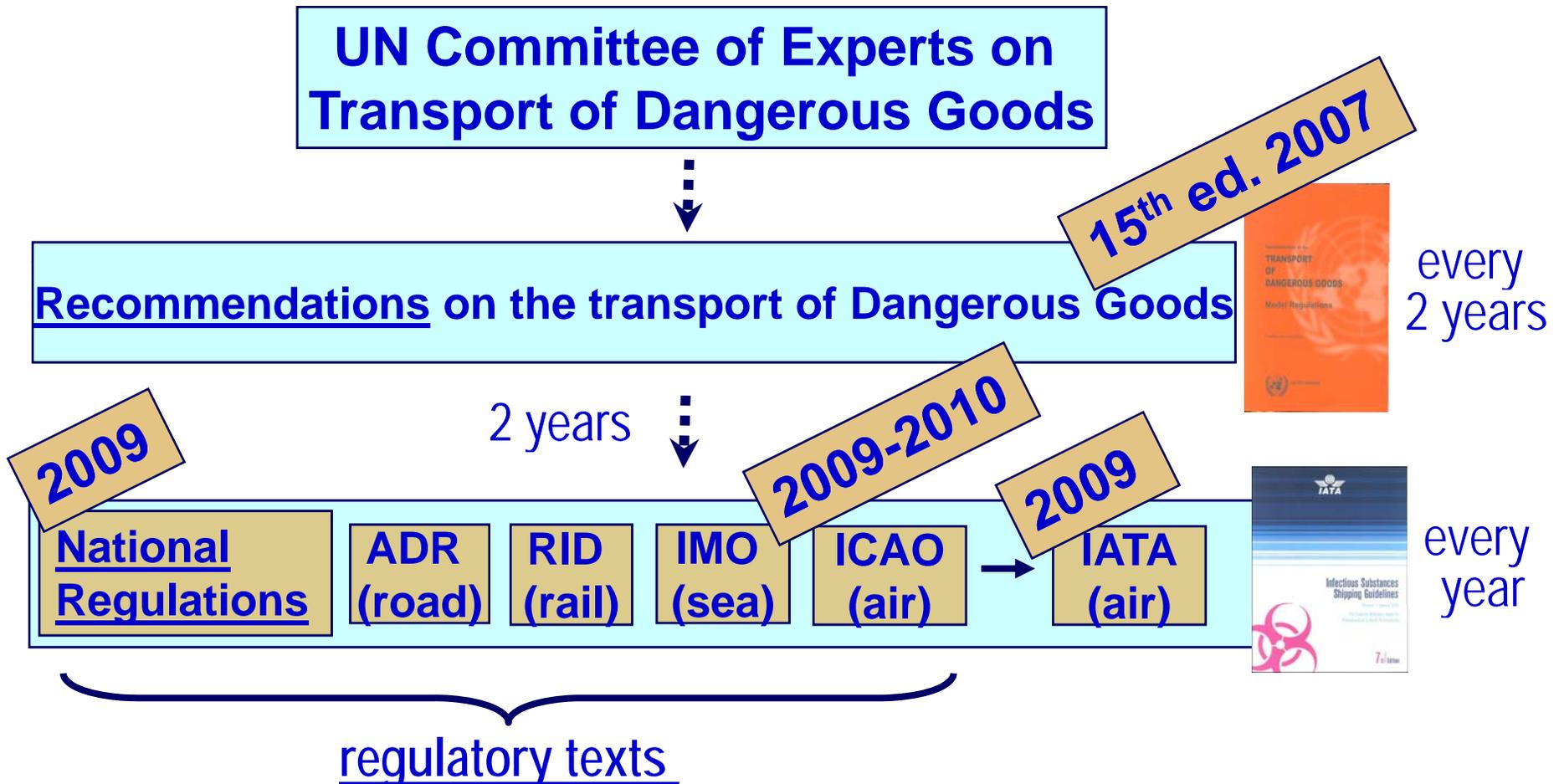


- Postal services (UPU)
- Private couriers, operators, service providers

Compliance: why?

- Mandatory rules (violation: civil penalty)
- Safety: minimize risks of accidents
- Minimize risks of not finding a courier

Timeline for impact of UN Model Regulations



2007: 15th ed. of UN Model Regulations

2009: ICAO, IATA, national legislation

2005: The Risk Groups are gone!

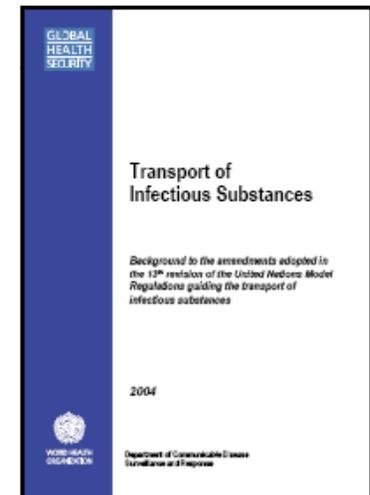
Old classification,
according to WHO risk
groups

- Infectious substances
- Diagnostic specimens

- Biological products
- GMMOs and GMOs
- Wastes

New classification,
according to transport
Categories A and B

- Infectious substances
in categories A and B
- Cultures
- Patient specimens
- Biological products
- GMMOs and GMOs
- Wastes



Contents

- 1. Definitions
 2. Classification
 3. Packaging

} "theory"

 4. Preparing a shipment
 5. Marking and labelling
 6. Documentation

} "practice"

Definitions I

Infectious substances are substances which are known or are reasonably expected to **contain pathogens**.

Pathogens are defined as microorganisms (including bacteria, viruses, rickettsiae, parasites, fungi) and other agents such as prions, which can cause disease in humans or animals.

Definitions II

Cultures are the result of a process by which **pathogens are intentionally propagated**. This definition **does not include patient specimens** as defined below.

Patient specimens are those collected **directly from humans or animals**, including, but not limited to, excreta, secreta, blood and its components, tissue and tissue fluid swabs, and body parts being transported for purposes such as research , diagnosis, investigational activities, disease treatment and prevention.

Classification of Infectious Substances

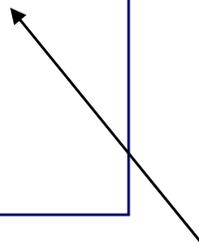
Classification is based on two transport categories

Category A: An infectious substance which is transported in a form that, when exposure to it occurs, is **capable of causing permanent disability, life-threatening or fatal disease** in otherwise healthy humans or animals.

- indicative examples are given in a list
- packaging: most durable triple packaging with full dangerous goods documentation (PI 602)
- mandatory training
- UN 2814 Infectious substances affecting humans or UN 2900 infectious substances affecting animals only

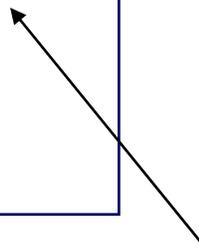
Indicative examples of infectious substances included in Category A in any form unless otherwise indicated

UN 2814 Infectious substances affecting humans	<i>Bacillus anthracis</i> (cultures only) <i>Brucella abortus</i> (cultures only) <i>Brucella melitensis</i> (cultures only) <i>Brucella suis</i> (cultures only) <i>Burkholderia mallei</i> [<i>Pseudomonas mallei</i> – Glanders](cultures only) <i>Burkholderia pseudomallei</i> [<i>Pseudomonas pseudomallei</i>] (cultures only) <i>Chlamydia psittaci</i> [avian strains] (cultures only) <i>Clostridium botulinum</i> (cultures only) <i>Coccidioides immitis</i> (cultures only) <i>Coxiella burnetii</i> (cultures only) Crimean-Congo hemorrhagic fever virus Dengue virus (cultures only) Eastern equine encephalitis virus (cultures only) <i>Escherichia coli</i> , verotoxigenic (cultures only) Ebola virus Flexal virus <i>Francisella tularensis</i> (cultures only)
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Proper shipping names (PSN) 

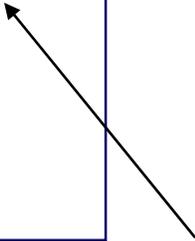
Indicative examples of infectious substances included in Category A in any form unless otherwise indicated

UN 2814 Infectious substances affecting humans	Guanarito virus Hantaan virus Hanta virus pulmonary syndrome Hendra virus Hepatitis B virus (cultures only) Herpes B virus (cultures only) Human immunodeficiency virus (cultures only) Highly pathogenic avian influenza virus (cultures only) Japanese Encephalitis virus (cultures only) Junin virus Kyasanur Forest disease virus Lassa virus Machupo virus Marburg virus Monkeypox virus <i>Mycobacterium tuberculosis</i> (cultures only) Nipah virus Omsk hemorrhagic fever virus
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Proper shipping names (PSN) 

Indicative examples of infectious substances included in Category A in any form unless otherwise indicated

UN 2814 Infectious substances affecting humans	Poliovirus (cultures only) Rabies virus (cultures only) <i>Rickettsia prowasekii</i> (cultures only) <i>Rickettsia rickettsii</i> (cultures only) Rift Valley fever virus (cultures only) Russian spring-summer encephalitis virus (cultures only) Sabia virus <i>Shigella dysenteriae type 1</i> (cultures only) Tick-borne encephalitis virus (cultures only) Variola virus Venezuelan equine encephalitis virus (cultures only) West Nile virus (cultures only) Yellow fever virus (cultures only) <i>Yersinia pestis</i> (cultures only)
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Proper shipping names (PSN) 

Indicative examples of infectious substances included in Category A in any form unless otherwise indicated

UN 2900 Infectious substances affecting animals only	African swine fever virus (cultures only) Avian paramyxovirus Type 1 [Velogenic Newcastle disease virus (cultures only)] Classical swine fever virus (cultures only) Foot and mouth disease virus (cultures only) Lumpy skin disease virus (cultures only) <i>Mycoplasma mycoides</i> [Contagious bovine pleuropneumonia] (cultures only) Peste des petits ruminants virus (cultures only) Rinderpest virus (cultures only) Sheep-pox virus (cultures only) Goatpox virus (cultures only) Swine vesicular disease virus (cultures only) Vesicular stomatitis virus (cultures only)
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Proper
shipping
names
(PSN)



- If the proper shipping name is unknown, write "suspected category A infectious substance" on Dangerous Goods Declaration

Classification of Infectious Substances II

Category B: An infectious substance which does not meet the criteria for inclusion in Category A

- packaging: less stringent triple packaging (PI 650)
- no DG documentation required
- UN 3373 Biological substances, category B

Exceptions - not subject to Regulations

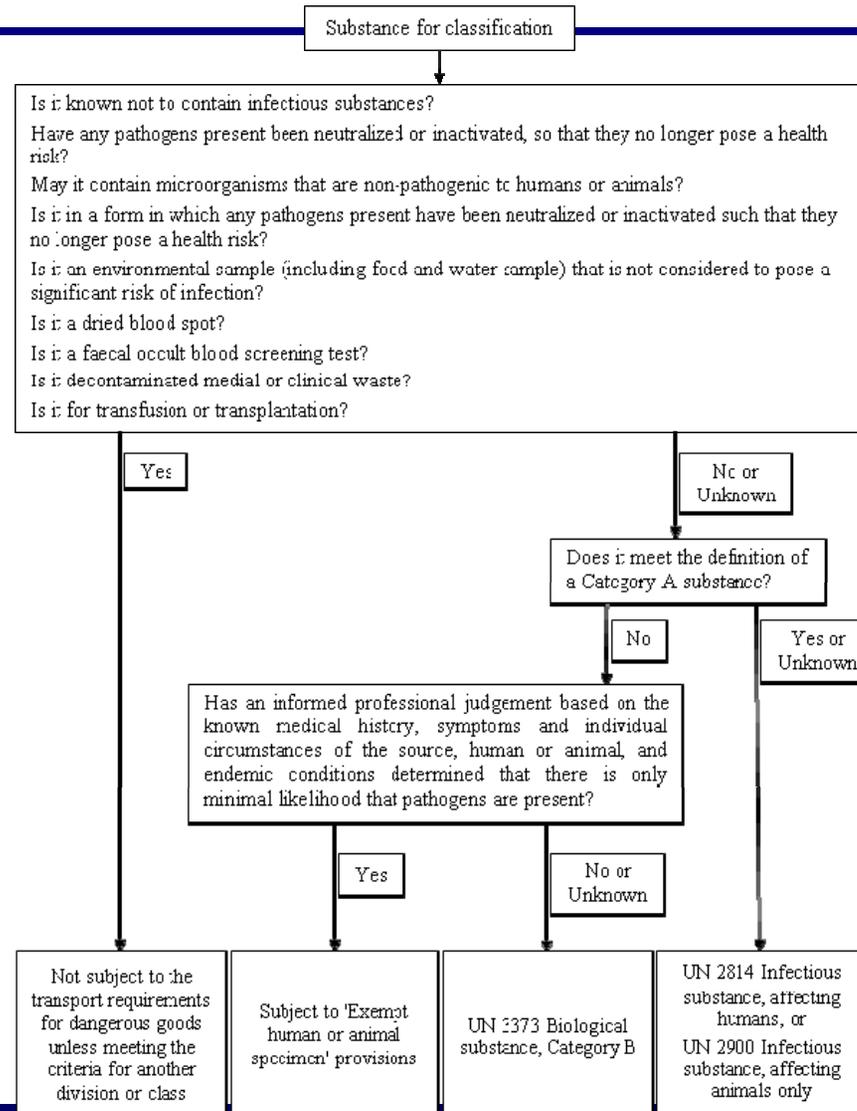
- Substances that do not contain infectious substances
- Substances containing organisms that are non pathogenic
- Substances containing neutralized or inactivated pathogens
- Environmental samples that pose no risk of infection
- Blood or blood components collected for transfusion
- Tissues or organs cleared for transplantation
- **Dried blood spots and faecal occult blood screening tests**
- Decontaminated medical or clinical waste
- "Exempt" human or animal specimens (min packaging and marking)

Exemptions

Exempt human/animal patient specimens: specimens for which there is minimal likelihood that pathogens are present.

- packaging: less stringent triple packaging ("PI 650-like")
- no DG documentation required
- a professional judgment is required to determine if a substance is exempt under this paragraph

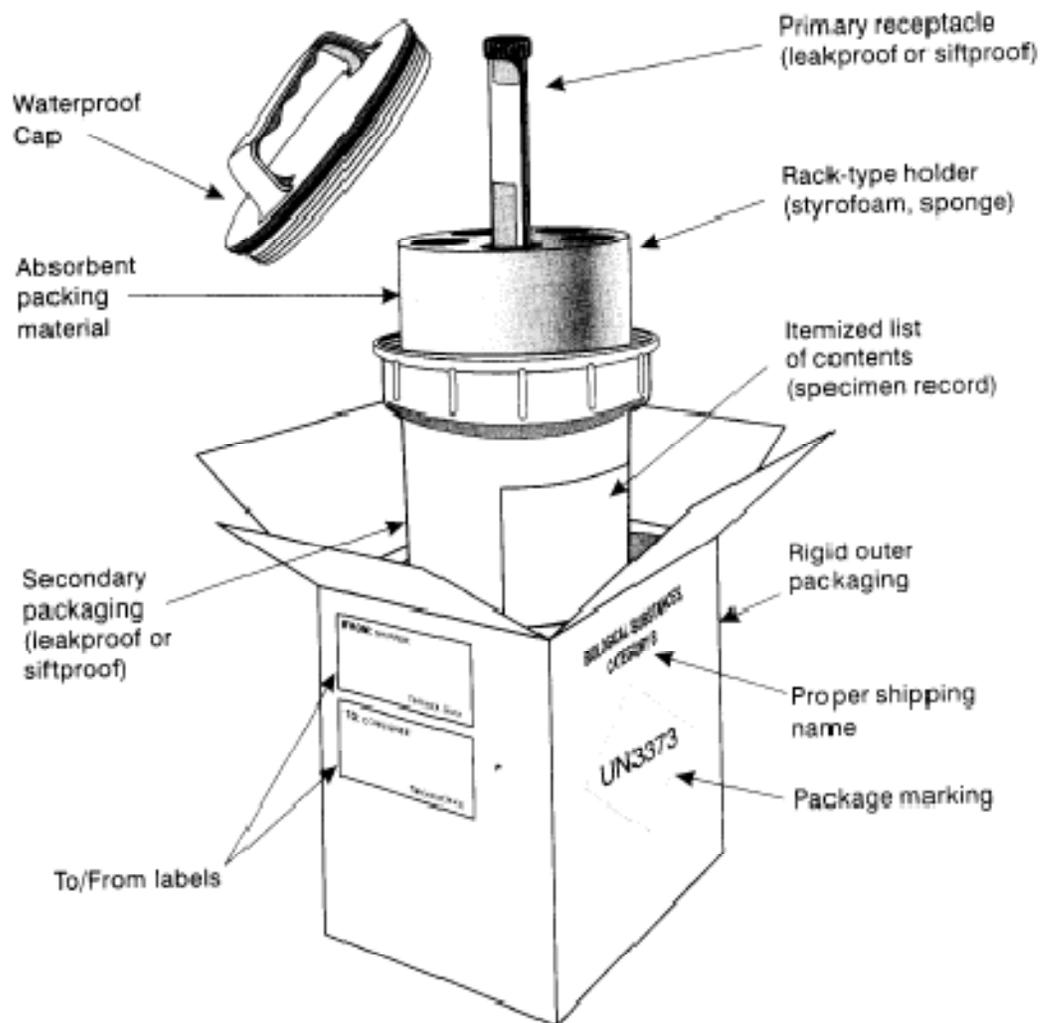
Flowchart for classification



Triple Packagings

Category A (PI 602)	Category B (PI 650)	Exempt human or animal specimens
<ul style="list-style-type: none"> • Leakproof primary • Leakproof secondary • 95 kPa pressure test • Rigid outer • Min dim 100 mm • Absorbent material • 9 meter drop test • 7 kg penetration test • UN marks and labels • Full DG documentation • Training <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="text-align: center;">  <p style="font-size: small;">4G/CLASS 6.2/98 CAN/8-2 SAF-TPAK</p> </div> </div>	<ul style="list-style-type: none"> • Leakproof primary • Leakproof secondary • 95 kPa pressure test • Rigid outer • at least one surface: min 100 mm x 100 mm • Absorbent material • 1.2 meter drop test • • 3373 mark • • <div style="display: flex; align-items: center; margin-top: 10px;">  </div>	<ul style="list-style-type: none"> • Leakproof primary • Leakproof secondary • Adequate outer • at least one surface: min 100 mm x 100 mm • Absorbent material • • • • •

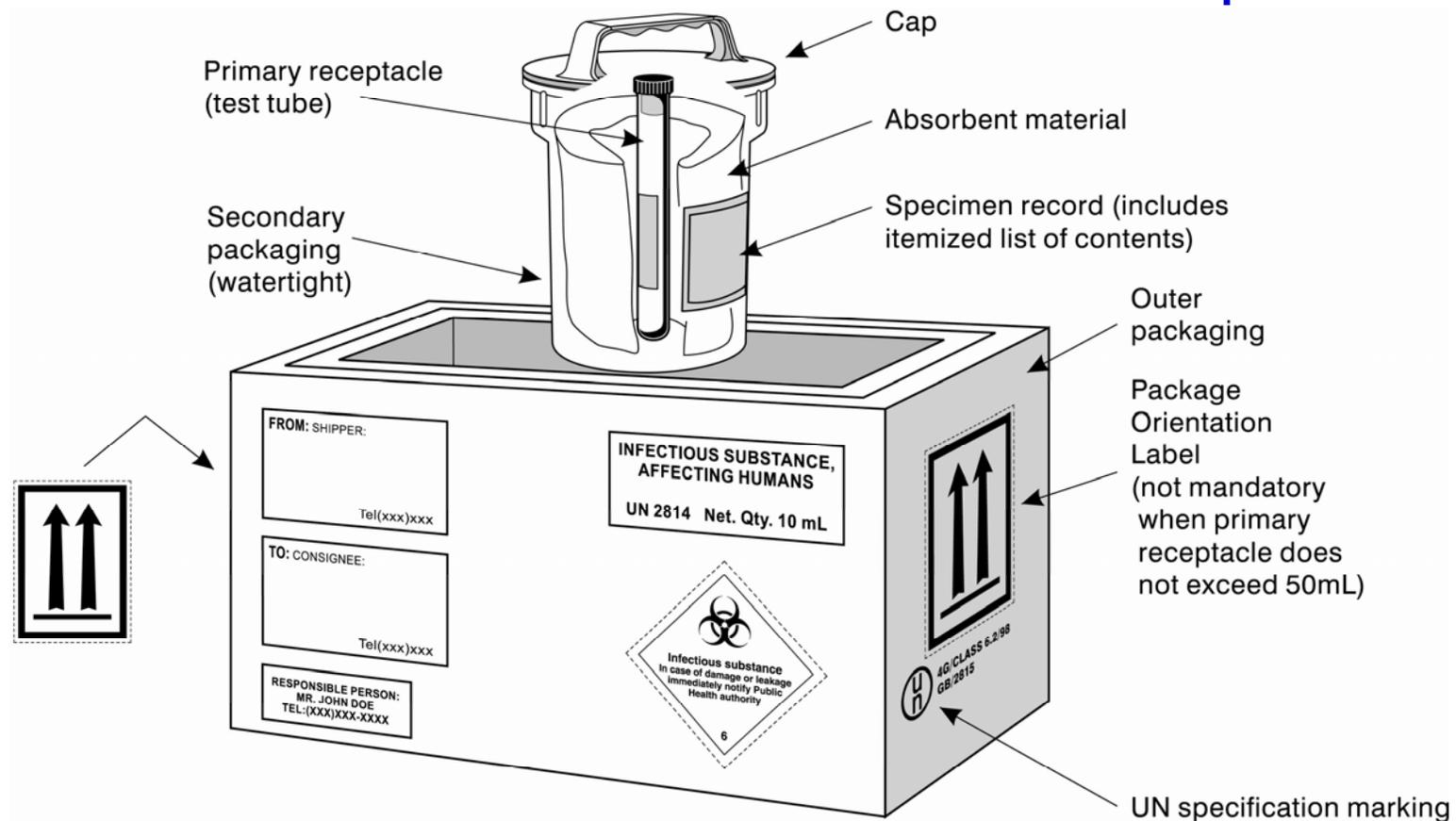
Example of a "650 package" for biological substances, Category B (UN 3373)



No biohazard label is required

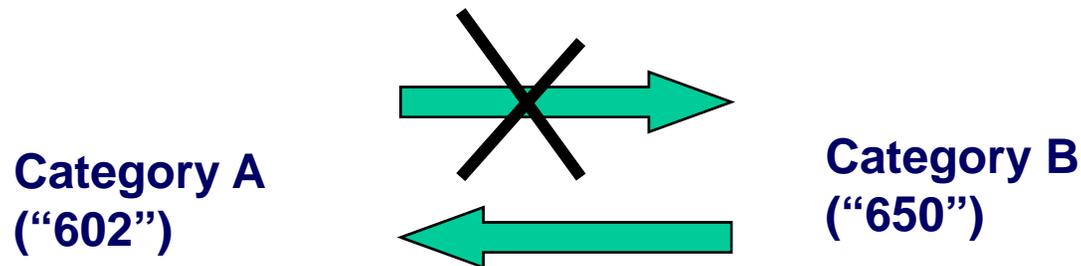
Example of a “602 package” for infectious substances, Category A (UN 2814 or UN 2900)

- A biohazard label is required



Use of triple packages

- Infectious substances of Category B may be shipped in "602" packages, as long as the correct marking and labelling is provided on the outer package.
- Infectious substances of Category A however must not be shipped in "650" packages.



What to send with the sample?

Complete laboratory request form with the following:

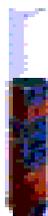
- Sampler/sender's name(s) and contact information
- Sample date and time
- Patient's name (depend on national ethic policy), age, sex
- Suspected clinical diagnosis and main clinical signs
- Context (outbreak confirmation, outbreak verification, end of outbreak, routine surveillance, etc.)
- Epidemiological or demographic identification (*must be provided in order to link lab and epi data*)

Preparing a shipment

Shipper's responsibilities:

1. Before a consignment of infectious substances, Category A, is offered for transport, all relevant persons involved in its preparation **must** have received **training** to enable them to carry out their responsibilities.
2. The articles or substances must be **properly identified, classified, marked, labelled, documented** and be in the condition for transport in accordance with applicable regulations.
3. Make **advance arrangements, request import/export permits, prepare all dispatch documents.**

Category A infectious substances: PI 602

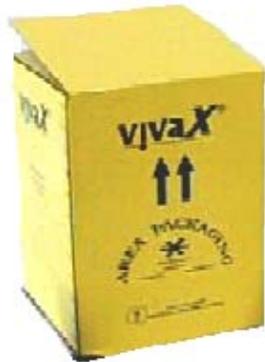


- watertight primary receptacle(s), individually wrapped
- for liquids: an absorbent material in sufficient quantity to absorb the entire contents
- a watertight secondary packaging,
- a rigid outer packaging of adequate strength for its capacity, mass and intended use



The smallest external dimension must be not less than 100 mm

Category A infectious substances: PI 602



- Drop test from 9 m



- Puncture test

- Stacking test

In order to pass each of the tests, the primary receptacle must not leak.



- Internal pressure test (95 kPa)



4G/CLASS 6.2/98
CAN/8-2 SAF-TPAK

➔ UN-approved packaging suppliers (MoT, carriers)

Marking and labelling I – certified packaging

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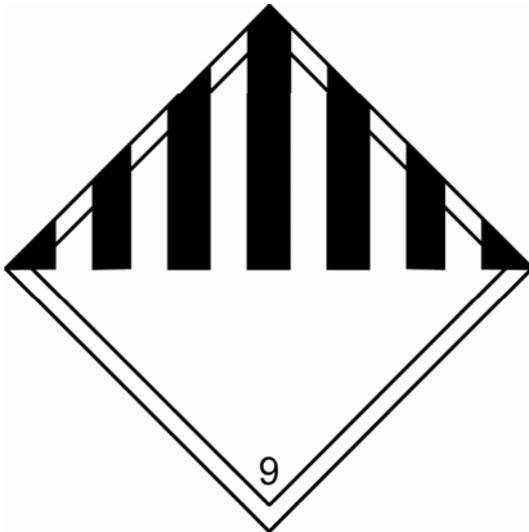


- UN Symbol
- Type code. 4G = fibreboard box
- Text specifying the DG class
- Year of manufacture
- State authorizing the allocation of the mark
- Name of manufacturer or packaging identification

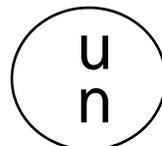
Marking and labelling II – certified packaging



Hazard label for Category A infectious substances



Hazard label for dry ice

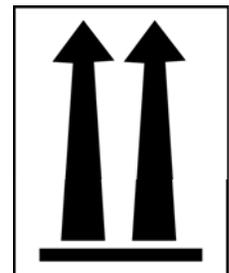


4G/CLASS 6.2/02
F/BVT 312103

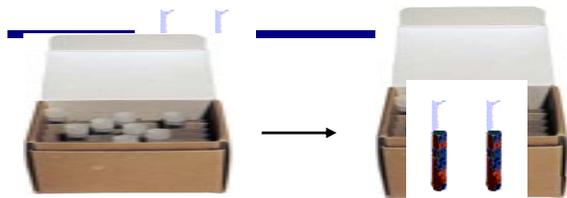
SHIPPER	CONSIGNEE
AREA TIME LOGISTICS BP 102 ERAGNY / OISE 95613 CERGY PONTOISE CTC : Dr Rafy + 33134024658	LAB PASTEUR CERBA RUE DE L'EQUERRE 97 FORT DE FRANCE CTC M.NIEDERHOFFER TEL +33 1 34 40 21 72
INFECTIOUS SUBSTANCE AFFECTING HUMANS UN 2814 Net Qty 25mL	
DRY ICE X 15 KGS NET UN 1845 CLASSE 9	
EMERGENCY CONTACT 24H/24H Dr RAFY : + 33 1 34 02 46 58	

Marking showing names and addresses of shipper and receiver, the tel number of a responsible person, content details

Orientation label to be placed on two opposite sides



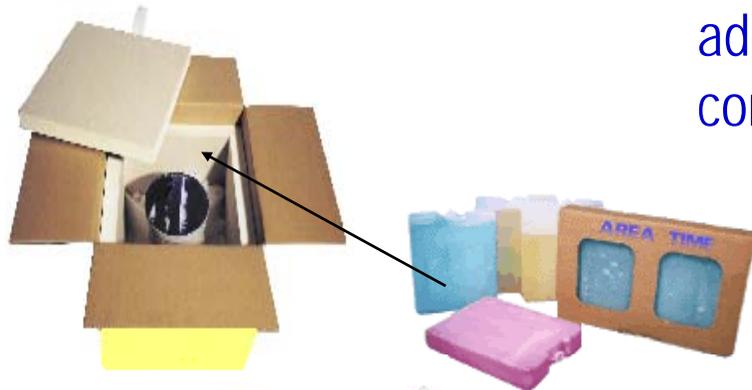
Package assembly



1 – seal watertight and leak-proof primary receptacle(s), place them in a rack (if needed) or wrap individually

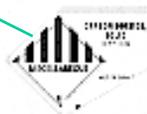
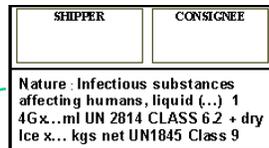


2 – Place the primary receptacles (or rack) in watertight and leak-proof secondary packaging, add sufficient absorbent material to absorb entire content in case of leakage



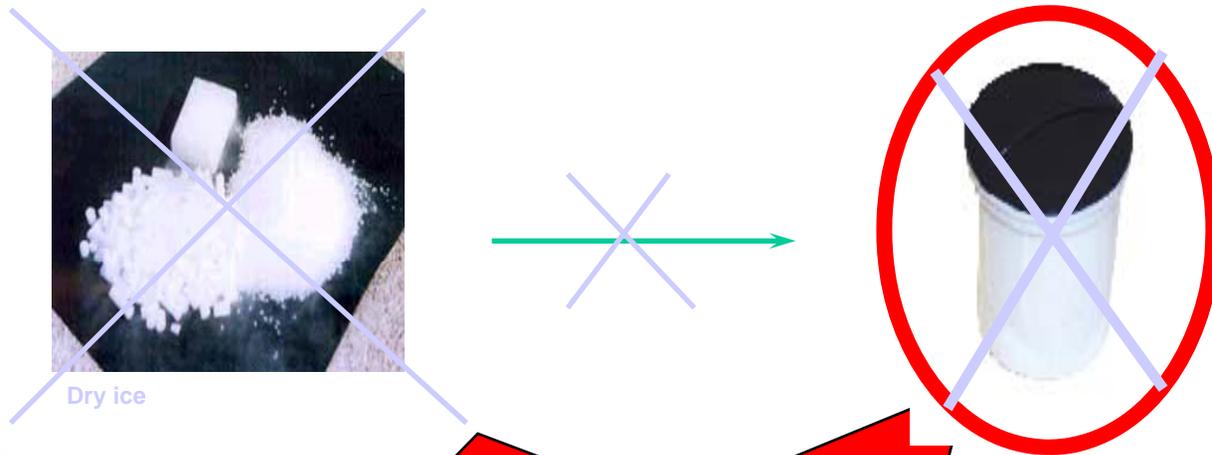
3 – Place secondary packaging in appropriate rigid outer packaging, add cooler (e.g. wet ice, dry ice) if necessary and itemized list of contents

4 – Close package and apply necessary markings and labels



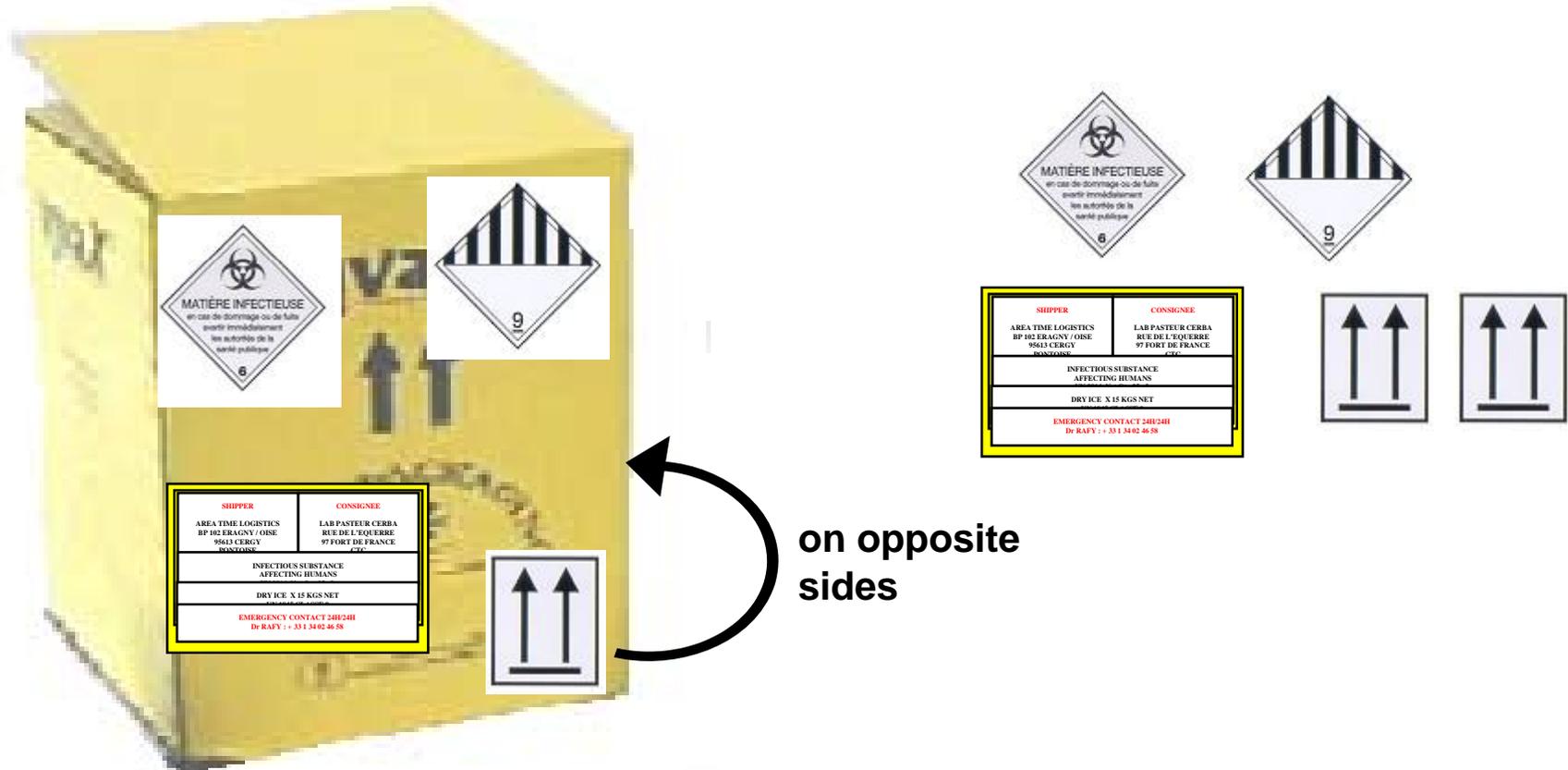
Warning

NEVER place dry ice inside the primary or secondary packaging!!



RISK of EXPLOSION

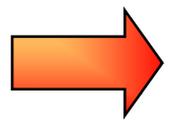
Package marking and labelling



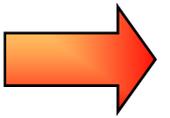
on opposite sides

Minimal dimensions for labels: 100 x 100 mm
For small packages: 50 x 50 mm

Documentation



A shipper's declaration of Dangerous Goods for Category A infectious substances



An air waybill

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper Hôpital des enfants 5, Rue des Mimosas 05234 Rivière Fleurie - Primance		Air Waybill No. 543 7654 9876 Page 1 of 1 Pages Shipper's Reference Number <small>(optional)</small>				
Consignee Dr Bedikian tel +0789 456 Laboratorios Biovirobact 5, Calle Escherichia 98675 Eproveta - Polotos Dr Guarguir tel +0520 36 009						
Two completed and signed copies of this Declaration must be handed to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
TRANSPORT DETAILS This shipment is within the limitations prescribed for: <small>(delete non-applicable)</small>						
Airport of Departure: VILLEBELL E		Shipment type: <small>(delete non-applicable)</small> NON-RADIOACTIVE RADIOACTIVE				
Airport of Destination: VIALIS						
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary risk)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization
UN 281 4	Infectious substance, affecting humans, (Ebola virus)	6.2		50 mL	602	
UN 184 5	Dry ice	9	III	20 kg All packed in one fibreboard box	904	
Additional Handling Information Emergency contact: Dr Bedikian Tel +0789 456 123						
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.				Name/Title of Signatory Dr Bedikian, Goods Receipt & Dispatch Rivière Fleurie, 18 May 2005		
				Place and Date Signature <small>(see warning above)</small>		

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Always
fill out
in English!

Shipper's checklist



A Shipper's Declaration has ISO A4 format and is printed in red and black on a white background



Complete the Shipper's Declaration in English



Complete a minimum of 3 copies of the Shipper's Declaration



The operator will not accept a declaration that has been altered or amended, unless the alteration or amendment to an entry has been signed by the shipper with the same signature used to sign the document.
Some carriers require typed or computer generated text!



The maximum net quantity (weight or volume) per package allowed on passenger aircraft is 50 mL or 50 g

LIST OF DANGEROUS GOODS RELATED TO THE TRANSPORT OF INFECTIOUS SUBSTANCES

Proper Shipping Name	UN No.	Class or division	Subsidiary Risk	Labels	State variations	Operator variations	Special provisions	UN packing group	Passenger and cargo aircraft					
									Limited quantity		Cargo aircraft only			
									Packging instruction	Max net qty per package	Packging instruction	Max net qty per package		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Aviation regulated liquid, n.o.s.	3334	9		Miscellaneous			A27 A48		-	-	906	1001	906	2201
Biological substance, Category B	3373	6.2							-	-	see 650		see 650	
Biomedical waste	3291	6.2		Infectious subst.			A117	II	-	-	622	No limit	622	No limit
Carbon dioxide, solid Dry ice	1845	9		Miscellaneous			A48 A151	III	-	-	904	200 kg	904	200 kg
Clinical waste, unspecified, n.o.s.	3291	6.2		Infectious subst.			A117	II	-	-	622	No limit	622	No limit
Ethanol Ethanol solution Ethyl alcohol Ethyl alcohol solution	1170	3		Flamm. liquid			A3 A58 A148	II	Y305	11	305	51	307	601
III								Y309	101	309	601	310	2201	
Formaldehyde solution	2209	8		Corrosive				III	Y818	11	818	51	820	601
Genetically modified micro-organisms Genetically modified organisms	3245	9		Miscellaneous			A47		-	-	913	No limit	913	No limit
Infectious substance, affecting humans (liquid)	2814	6.2		Infectious subst.			A81 A140		-	-	602	50 ml	602	41
Infectious substances, affecting humans (solid)	2814	6.2		Infectious subst.			A81 A140		-	-	602	50 g	602	4 kg
Infectious substance, affecting animals only (liquid)	2900	6.2		Infectious subst.			A81 A140		-	-	602	50 ml	602	41
Infectious substances, affecting animals only (solid)	2900	6.2		Infectious subst.			A81 A140		-	-	602	50 g	602	4 kg
Medical waste, n.o.s.	3291	6.2		Infectious subst.			A117	II	-	-	622	No limit	622	No limit
Methanol	1230	3	6.1	Flamm. liquid			A104 A113	II	Y305	11	305	11	307	601
Nitrogen, refrigerated liquid	1977	2.2		Non-flammable gas & cryogenic liquid			A152		-	-	202	50 kg	202	500 kg
Regulated medical waste, n.o.s.	3291	6.2		Infectious subst.			A117	II	-	-	622	No limit	622	No limit

Air waybill

Nom et adresse de l'expéditeur The shipper's name and address may be different from the one on the DGD		Numéro de compte de l'expéditeur		LETTRE DE TRANSPORT Bill of Lading Bill of Lading BILL OF LADING				
Nom et adresse du destinataire Consignee's Name and Address		Numéro de compte du destinataire Consignee's Account Number		Les copies 1, 2 et 3 de cette lettre de transport aérien sont originales et ont la même validité Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.				
Nom et ville de l'agent du transporteur émetteur Issuing Carrier's Agent Name and City		Renseignements comptables Accounting Information		Il est convenu que les marchandises décrites dans le présent document sont acceptées pour le transport en bon état apparent (sauf annotation contraire) et que le transport est SOUMIS AUX CONDITIONS DU CONTRAT QUI FIGURENT AU VERSO. LES MARCHANDISES PEUVENT ÊTRE TRANSPORTÉES PAR TOUT AUTRE MOYEN Y COMPRIS PAR ROUTE OU PAR TOUT AUTRE TRANSPORTÉUR À MOINS QUE DES INSTRUCTIONS CONTRAIRES PRÉCISES. À CE SUJET, NE SOIENT DONNÉES PAR L'EXPÉDITEUR, ET L'EXPÉDITEUR ACCÉPTE QUE LES MARCHANDISES SOIENT ACHÉMINÉES VIA DES POINTS D'ARRÊT INTERMÉDIAIRES. QUE LE TRANSPORTÉUR AURA JUGE APPROPRIÉ. L'ATTENTION DE L'EXPÉDITEUR EST ATTIRÉE SUR L'AVIS CONCERNANT LA LIMITATION DE RESPONSABILITÉ DU TRANSPORTÉUR. L'expéditeur peut augmenter cette limitation de responsabilité en déclarant une valeur pour le transport plus élevée et en payant des frais supplémentaires s'il y a lieu. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREOF BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.				
Code IATA de l'agent Agent's IATA Code		Numéro de compte Account Number		Renseignements comptables Accounting Information				
Aéroport de départ (Adresse du premier transporteur) et itinéraire demandé Airport of Departure (Address of First Carrier) and Requested Routing		N° de Référence Reference Number		Informations Acheminement (Facultatives) Optional Shipping Information				
à to	Par premier transport By First Carrier	Route et dest. Routing and Destination	à to	par by	à to			
Aéroport de destination Airport of Destination		Vol/Date Demandés Requested Flight/Date		Montant de l'assurance Amount of Insurance				
Renseignements pour le traitement de l'expédition Handling Information		Valeur déclarée pour le transport Declared Value for Carriage		Valeur déclarée pour la douane Declared Value for Customs				
Dangerous goods as per attached shipper's declaration		SCI		ASSURANCE - Si le transporteur propose une assurance et que l'expéditeur en fait la demande conformément aux présentes conditions indiquer le montant à assurer en chiffres dans la case "Montant de l'assurance". INSURANCE - If Carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".				
Nombre de colis Number of Pieces NCP	Poids brut Gross Weight	kg lb	Classif. de tarif Rate Class	N° d'article de la marchandise Commodity Item No.	Poids de taxation Chargeable Weight	Tarif/Montant Rate/Charge	Total Total	Nature et quantité des marchandises (y compris dimensions ou volume) Nature and Quantity of Goods (incl. Dimensions or Volume)
Port payé Prepaid		Taxation au poids Weight Charge		Port dû Collect		Autres frais Other Charges		Laboratory samples TO STORE AT -20°C
Taxation à la valeur Valuation Charge		Taxe Tax		Total des autres frais dus à l'agent Total Other Charges Due Agent		L'expéditeur certifie que les indications portées sur le présent document sont exactes et que, dans la mesure où une partie quelconque de l'expédition contient des marchandises dangereuses, cette partie d'expédition est correctement dénommée et bien préparée pour le transport par air conformément à la réglementation applicable. Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods regulations.		
Total des autres frais dus au transporteur Total Other Charges Due Carrier		Total port payé Total Prepaid		Total port dû Total Collect		Signature de l'expéditeur ou de son agent Signature of Shipper or his Agent		
Taux conversion monnaie Currency Conversion Rates		Port dû en monnaie du pays de destination CC Charges in Dest. Currency		Fait le Executed on		(Date) (Date)		
Réservé au transporteur à destination For Carrier Use only at Destination		Frais à l'arrivée Charges at Destination		Total dû Total Collect. Charges		à at		
						(Lieu) (Place)		
						Signature du transporteur émetteur ou de son agent Signature of Issuing Carrier or its Agent		

DD: 5071

56 g Blanc

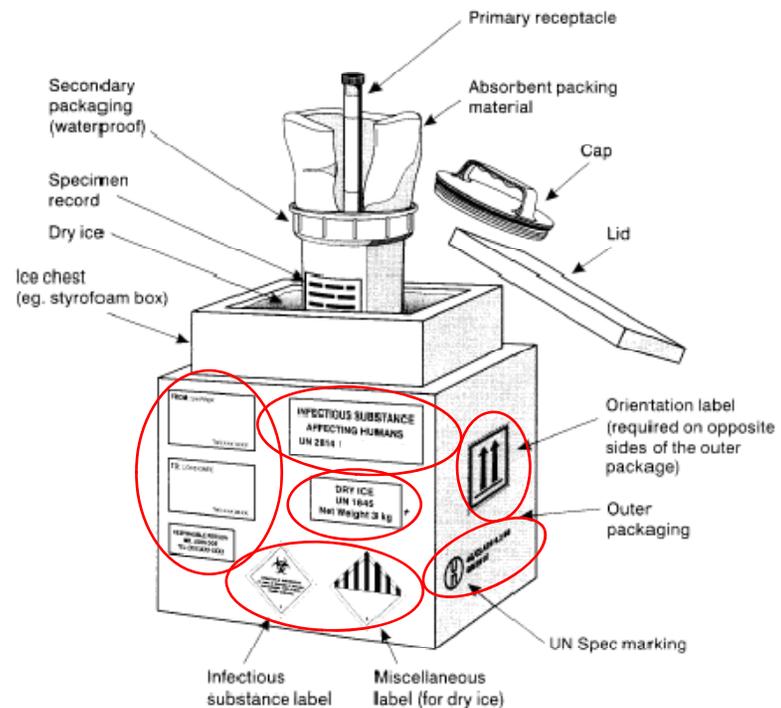
En vente : Boutique LCL, 10, avenue d'Iena, 75133 PARIS Cedex 16

Vente par correspondance : CNU Phoenix, 106 avenue George Clemenceau - 94369 BRY-SUR-MARNE Cedex - ☎ 01 48 82 31 51 - Fax : 01 48 82 31 51 - Site Internet : www.airfreight.com

Documentation and labelling for a shipment of infectious substances in category A with dry ice

NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk Group)	Packing Group	Quantity and type of packing	Proving test	Authorization
UN 2814	Infectious substance, affecting humans, (Ebola virus)	6.2		50 mL	602	
UN 1845	Dry ice	9	III	20 kg All packed in one fibreglass box	904	

Dangerous goods as per attached DGD						
UN No.	Proper Shipping Name	Class or Division	Packing Group	Quantity and type of packing	Proving test	Authorization
Laboratory samples						

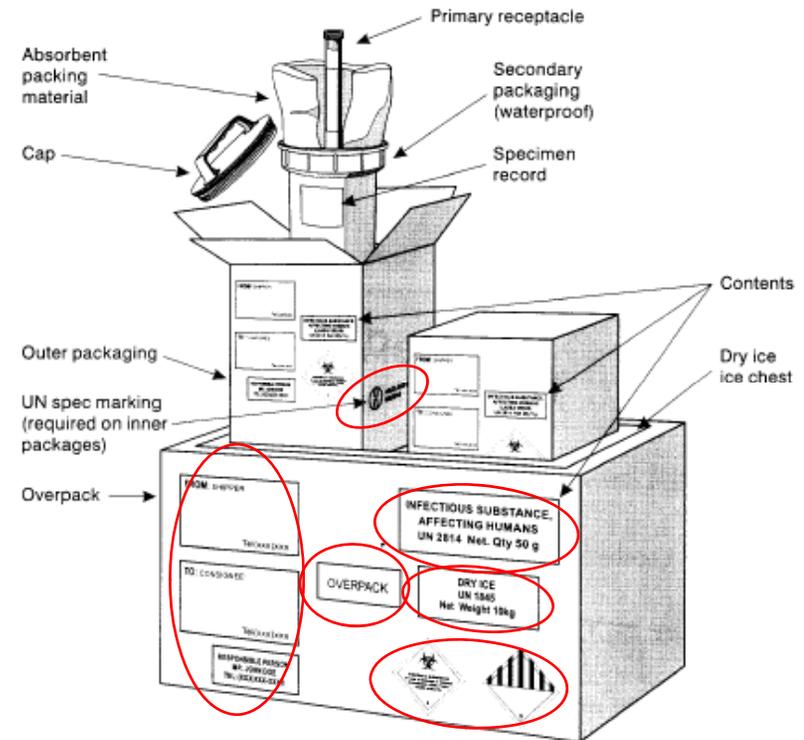


1. Shipper's Declaration for Dangerous Goods
2. Air waybill
3. Import/export permit
4. Shipper's Training
5. Packing instruction 602
6. Weight and volume limitations

Documentation and labelling for a shipment of Infectious substances in category A with dry ice in an overpack

NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary risk)	Packing Group	Quantity and type of packing	Packing list	Authorization
UN 2814	Infectious substance, affecting humans, (Suspected category A infectious substance)	6.2		2 fibreboard boxes x 50 mL	602	
UN 1845	Dry ice	9	III	20 kg Overpack used	904	

Dangerous goods as per attached DGD						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary risk)	Packing Group	Quantity and type of packing	Packing list	Authorization
				Laboratory samples		



1. Shipper's Declaration for Dangerous Goods
 - include the statement "Overpack Used" when dry ice is placed in an overpack:
2. Air waybill
3. Import/export permit
4. Shipper's Training
5. Packing instructions 602 and 904
6. Weight and volume limitations

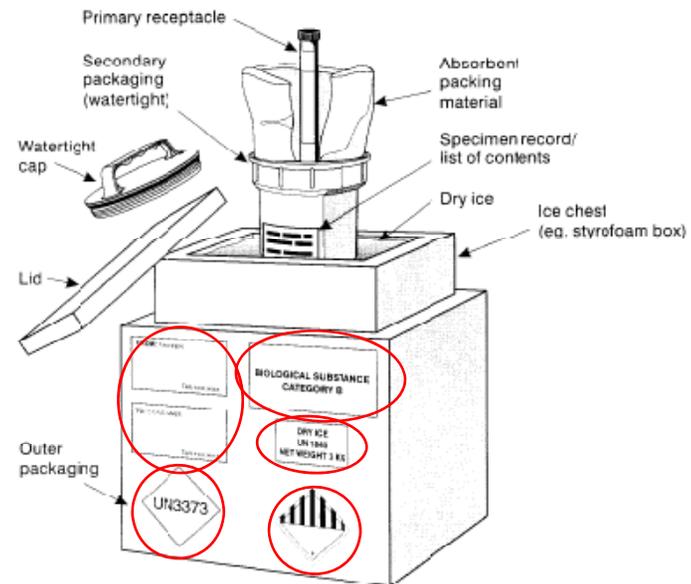
Documentation and labelling for a shipment of infectious substances in category B with dry ice

NATURE AND QUANTITY OF DANGEROUS GOODS					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division	Quantity and type of packing	Packing Inst.	Authorization

Not required

Shipper's Declaration	
Name and Title	Signature
Responsible person: Dr Bedkian Tel. +0789 456 123	

Biological substance, Category B UN 3373 UN 1845, Dry ice, Class 9, 1 x 3 kg
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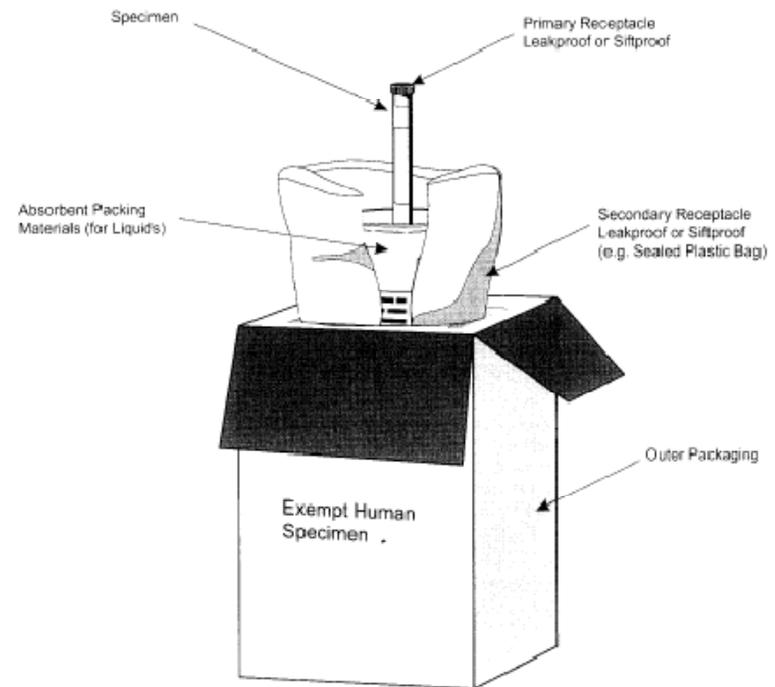
1. Air waybill
 - Name and Tel of a responsible person on box or on air waybill
2. Import/export permit
3. Awareness training
4. Packing instruction 650
5. Weight and volume limitations

Documentation and labelling for a shipment of exempt specimens

NATURE AND QUANTITY OF DANGEROUS GOODS					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division	Quantity and type of packing	Packing Inst.	Authorization

Not required

SHIPPER'S DECLARATION		RECEIVER'S DECLARATION	
SHIPPER'S NAME	SHIPPER'S ADDRESS	RECEIVER'S NAME	RECEIVER'S ADDRESS
Exempt specimens			



1. Air waybill
2. Packing instruction "650 light"

Packing specimens and shipping them by air

- Passengers and crew members cannot transport infectious substances of category A or B on passenger aircraft either as or in carry-on baggage or checked baggage, or on their person
- Weight and volume restrictions apply
- Infectious substances cannot be shipped in diplomatic bags
- Transport of specimens within national borders should comply with the procedures detailed within each country's regulations.

Customs: import and export permits

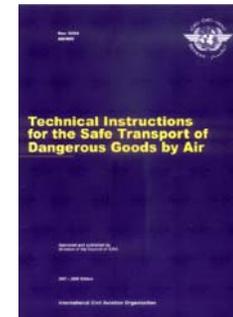
- **Authorization for shipment of specimens out of a country** must be obtained from the appropriate authorities (usually the Ministry of Health or Ministry of Agriculture)
- **Appropriate import permission** must be obtained from the recipient country before the specimens are shipped. Contact the recipient laboratory for help (usually reference laboratories have the appropriate import licenses)

Sources of practical shipping information (air)

ICAO:

Technical Instructions for the Safe Transport of Dangerous Goods by Air, 2007-2008 Edition

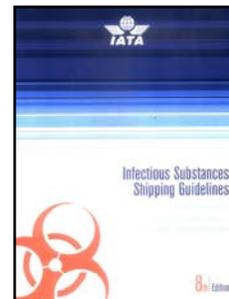
- published every two years
- US \$ 125 + Supplement US \$ 96



IATA:

Infectious Substances Shipping Guidelines

- published every year, effective 1 Jan
- US \$ 90

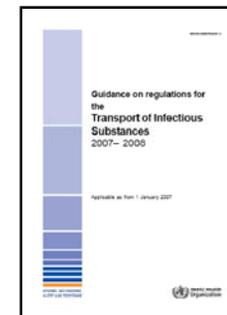


WHO:

Guidance on regulations for the Transport of Infectious Substances

- updated every two years
- downloadable at **no cost**

http://www.who.int/csr/resources/publications/biosafety/WHO_CDS_EPR_2007_2/en/index.html



Country Training issues

- Many countries have no access to training schools
- No funds
- Not aware of requirements
- Lack of national regulations
- How can we achieve safe, timely and legal transport under these conditions?

Possible ways forward

- e-tool accessible freely; DVD; reference document
- Collaboration with regulatory authorities and other stakeholders in revising e-training
- Agreement, accreditation, certification, recognition
- All logos on certificate
- Keep track of trainees, send e-reminder two yrs later

- Availability of packaging????
- Sample is only safe if packaged correctly.....

Thank you



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