

2020 INFECTIOUS MATERIAL SHIPPING GUIDE

JANUARY 1, 2020

The following guide provides a summary of marking, labeling and paperwork requirements for shipping Infectious Materials via domestic USA (49 CFR 171-180; current as of 1-JAN-2020]), international air (2020 IATA DGR, 61st Edition) and international vessel (IMDG, 39-18). Refer to the regulatory citations provided, country specific regulations and/or operator variations for complete requirements. Employees who perform any pre-transportation functions must have current training certificates. Also see: <u>DISCLAIMER</u>

This guide will be updated as infectious materials regulations change. Please check <u>www.hazmateam.com</u> for the most current version of this document.

TO GET STARTED, CLICK ON THE HOME ICON:





IMPORTANT DEFINITIONS (READ FIRST!)

CATEGORY A INFECTIOUS

CATEGORY B INFECTIOUS

REGULATED MEDICAL WASTE

(NO CATEGORY A PATHOGENS)

BIOLOGICAL PRODUCTS

(NO PATHOGENS)

PATIENT SPECIMENS

(NO PATHOGENS)

GENETICALLY MODIFIED MICRO-ORGANISMS OR ORGANISMS

(NO PATHOGENS)

SELF-TRANSPORT OPTIONS

IMPORTANT DEFINITIONS

This guide is formatted to the following DOT, IATA and IMDG Hazardous Materials/DG definitions:

Division 6.2 (Infectious substance) means a material known or reasonably expected to contain a pathogen.

Pathogen is a microorganism (including bacteria, viruses, rickettsiae, parasites, fungi) or other agent, such as a proteinaceous infectious particle (prion), that can cause disease in humans or animals.

Category A Infectious: An infectious substance in a form capable of causing permanent disability or life-threatening or fatal disease in otherwise healthy humans or animals when exposure to it occurs. An exposure occurs when an infectious substance is released outside of its protective packaging, resulting in physical contact with humans or animals. A Category A infectious substance must be assigned to identification number UN 2814 or UN 2900, as appropriate.

Category B Infectious: An infectious substance that is not in a form generally capable of causing permanent disability or life-threatening or fatal disease in otherwise healthy humans or animals when exposure to it occurs. This includes Category B infectious substances transported for diagnostic or investigational purposes. A Category B infectious substance must be described as "Biological substance, Category B" and assigned identification number UN 3373. This does not include regulated medical waste, which must be assigned identification number UN 3291.

Regulated medical waste: means a waste or reusable material derived from the medical treatment of an animal or human, which includes diagnosis and immunization, or from biomedical research, which includes the production and testing of biological products. Regulated medical waste or clinical waste or (bio) medical waste containing a Category A infectious substance must be classed as an infectious substance, and assigned to UN2814 or UN2900, as appropriate.

Patient Specimen: means human or animal material collected directly from humans or animals and transported for research, diagnosis, investigational activities, or disease treatment or prevention. *Patient specimen* includes excreta, secreta, blood and its components, tissue and tissue swabs, body parts, and specimens in transport media (*e.g.*, transwabs, culture media, and blood culture bottles).

Biological product means a virus, therapeutic serum, toxin, antitoxin, vaccine, blood, blood component or derivative, allergenic product, or analogous product, or arsphenamine or derivative of arsphenamine (or any other trivalent arsenic compound) applicable to the prevention, treatment, or cure of a disease or condition of human beings or animals. Unless otherwise excepted, a *biological product* known or reasonably expected to contain a pathogen that meets the definition of a Category A or B infectious substance must be assigned the identification number UN 2814, UN 2900, or UN 3373, as appropriate.

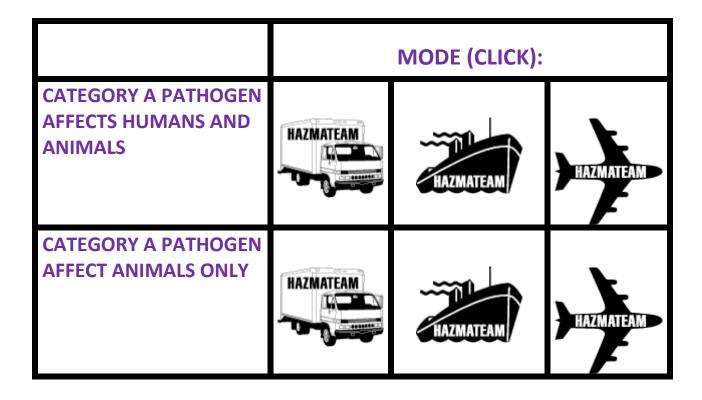
Genetically modified micro-organisms (GMMOs) and genetically modified organisms (GMOs) are micro-organisms and organisms in which genetic material has been purposely altered through genetic engineering in a way that does not occur naturally. GMMOs and GMOs which do not meet the definition of toxic or infectious substances must be assigned to UN 3245.

Refer to <u>49 CFR 173.134</u>, IMDG 2.6.3 and IATA DGR 3.9.



CATEGORY A INFECTIOUS MATERIALS

TRANSPORTATION



NAVIGATE (CLICK):



CATEGORY B INFECTIOUS

MATERIALS

TRANSPORTATION

	MODE (CLIC	СК):	
CATEGORY B PATHOGENS SHIPPED FOR INVESTIGATIONAL PURPOSES	HAZMATEAM	HAZMATEAM	HAZMATEAM



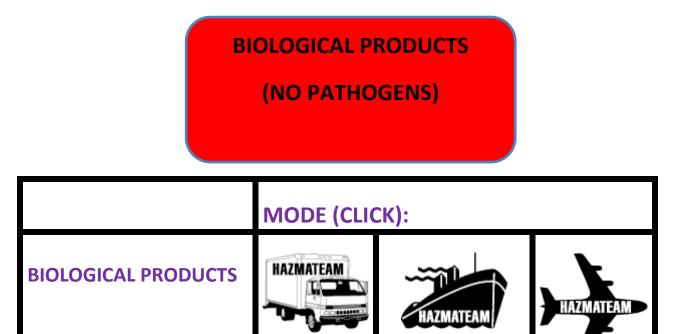
REGULATED MEDICAL WASTE

(NO CATEGORY A PATHOGENS)

	MODE (CLICK):
REGULATED MEDICAL WASTE	HAZMATEAM
SHARPS	HAZMATEAM

NAVIGATE (CLICK):



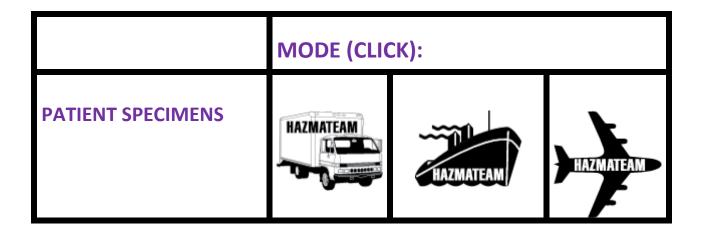


NAVIGATE (CLICK):



PATIENT SPECIMENS

(NO PATHOGENS)



NAVIGATE (CLICK):



GENETICALLY MODIFIED MICRO-ORGANISMS OR ORGANISMS

(NO PATHOGENS)

	MODE (CLIC	СК):	
GENETICALLY MODIFIED MICRO-ORGANISMS AND ORGANISMS	NOT REGULATED US GROUND	HAZMATEAM	HAZMATEAM

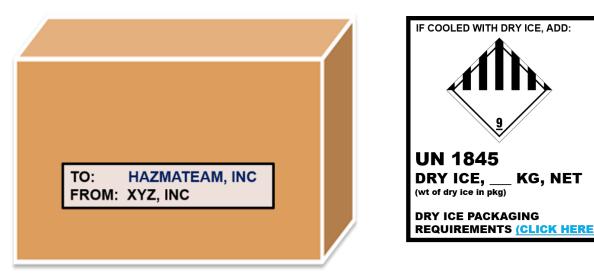


Biological Product

- NO PROPER SHIPPING NAME OR UN NUMBER
- Vessel and Air transport
- DECLARATION/SHIPPING PAPER: NO



- *Biological product* means a virus, therapeutic serum, toxin, antitoxin, vaccine, blood, blood component or derivative, allergenic product, or analogous product, or arsphenamine or derivative of arsphenamine (or any other trivalent arsenic compound) applicable to the prevention, treatment, or cure of a disease or condition of human beings or animals.
- Biological Products are not regulated for transportation provided the material does not contain a pathogen or meet the definition of any other hazard class.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.



Address label optional

© HAZMATEAM, INC.
REFERENCE:
AIR: IATA DGR 3.6.2.1.2 & 3.6.2.3
VESSEL: IMDG CODE, 2.6.3.1.2 & 2.63.3



Biological Product

- NO PROPER SHIPPING NAME OR UN NUMBER
- GROUND NOT REGUALATED
- DECLARATION/SHIPPING PAPER: NO
- *Biological product* means a virus, therapeutic serum, toxin, antitoxin, vaccine, blood, blood component or derivative, allergenic product, or analogous product, or arsphenamine or derivative of arsphenamine (or any other trivalent arsenic compound) applicable to the prevention, treatment, or cure of a disease or condition of human beings or animals.
- Biological Products are not regulated for transportation provided the material does not contain a pathogen or meet the definition of any other hazard class.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.
- <u>Click Here</u> for ground self-transport exceptions

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FR	OM:	XYZ, IN	ATEAM, IC			

Address label optional

© HAZMATEAM, INC. REFERENCE: GROUND: 49 CFR 173.134 (a)(2) & 173.134(b)(6)

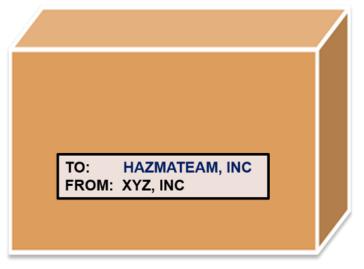




EXEMPT HUMAN/ANIMAL SPECIMENS



- NO PROPER SHIPPING NAME OR UN NUMBER
- GROUND TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- *Patient specimen* means human or animal material collected directly from humans or animals and transported for research, diagnosis, investigational activities, or disease treatment or prevention. *Patient specimen* includes excreta, secreta, blood and its components, tissue and tissue swabs, body parts, and specimens in transport media (*e.g.*, transwabs, culture media, and blood culture bottles).
- Patient specimens which there is a minimal likelihood that pathogens are present or does not meet the definition or any other hazard class, are not regulated for transportation.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.
- <u>Click Here</u> for ground self-transport exceptions



Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.134 (a)(4) & 173.134 (b)





EXEMPT HUMAN/ANIMAL SPECIMENS

- NO PROPER SHIPPING NAME OR UN NUMBER
- Vessel & Air Transport
- DECLARATION/SHIPPING PAPER: NO
- *Patient specimen* means human or animal material collected directly from humans or animals and transported for research, diagnosis, investigational activities, or disease treatment or prevention. *Patient specimen* includes excreta, secreta, blood and its components, tissue and tissue swabs, body parts, and specimens in transport media (*e.g.*, transwabs, culture media, and blood culture bottles).
- Patient specimens which there is a minimal likelihood that pathogens are present or does not meet the definition or any other hazard class, are not regulated for transportation.
- Must "triple package" following references below.

OR

• <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements. <u>Click Here</u> for ground selftransport exceptions

EXEMPT

ANIMAL

SPECIMEN

TO: HAZMATEAM, INC FROM: XYZ, INC



EXEMPT

HUMAN

SPECIMEN

HAZMATEAM, INC

REFERENCE:

TO: HAZMAT FROM: XYZ, INC

AIR: IATA DGR 3.6.2.1.4 & 3.6.2.2.3.8

VESSEL: IMDG CODE 2.6.3.1.4 & 2.6.3.2.3.8



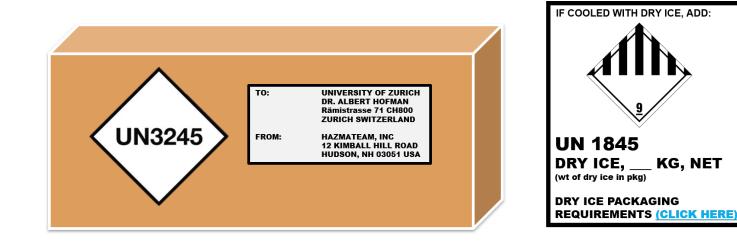






Genetically Modified Micro-organism

- Genetically Modified Micro-organism, UN 3245
- AIR AND VESSEL (NOT REGULATED US GROUND)
- DECLARATION/SHIPPING PAPER: NO
- Genetically modified micro-organisms (GMMOs) and genetically modified organisms (GMOs) are microorganisms and organisms in which genetic material has been purposely altered through genetic engineering in a way that does not occur naturally.
- GMMOs do not contain pathogens or meet the definition of any other hazard class.
- Must "triple package" following references below.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.



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REFERENCE:

AIR: IATA DGR, 3.9.2.5 & PI 959

VESSEL: IMDG CODE, PI 904, SP 219

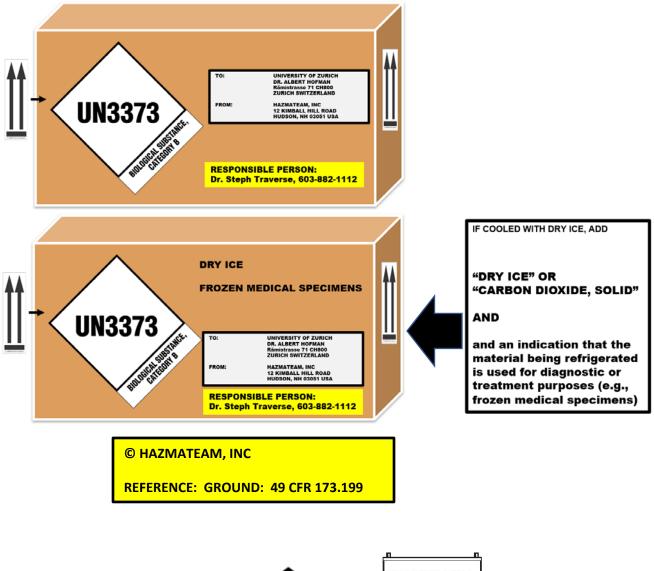






BIOLOGICAL SUBSTANCE, CATEGORY B

- Biological Substance, Category B, UN 3373
- GROUND
- DECLARATION/SHIPPING PAPER: NO
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following reference below; Package closure instructions must be available for state and federal inspections
- The name and telephone number of a person must be included on a written document (such as a bill of lading) or on the outer packaging.
- Package testing: All packages must pass 1.2 m (3.9 ft) drop test;
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.
- <u>Click Here</u> for ground self-transport exceptions





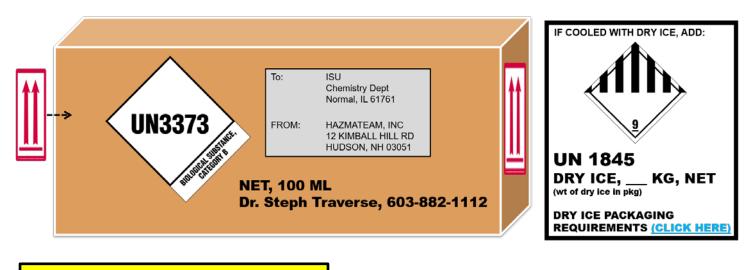




BIOLOGICAL SUBSTANCE, CATEGORY B



- Biological Substance, Category B, UN 3373
- AIR & VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following references below.
- Package closure instructions must be available for state and federal inspections
- The name and telephone number of a person must be included on a written document (such as an air waybill or bill of lading) or on the outer packaging (optional for IMDG shipments)
- Package testing: All packages must pass 1.2 m (3.9 ft) drop test;
- Vessel & air transport: Primary or secondary receptacles containing liquid must pass 95 kPa pressure test.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.



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REFERENCE:

AIR: IATA PI 650

VESSEL: IMDG CODE, PI P650



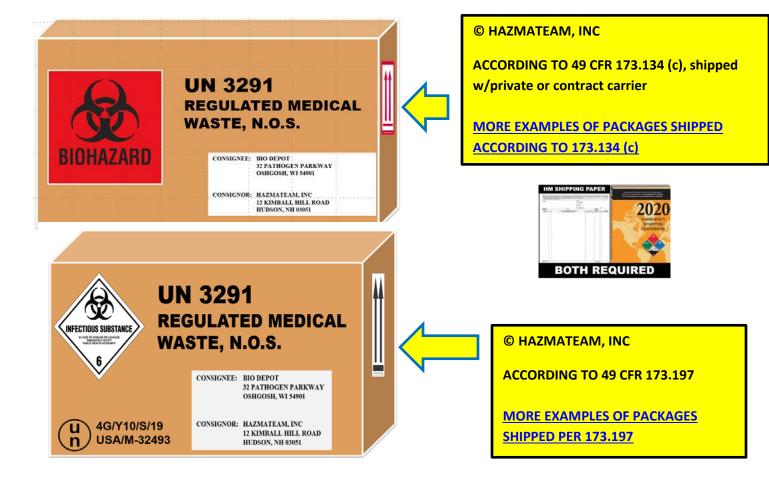




REGULATED MEDICAL WASTE, N.O.S.



- REGULATED MEDICAL WASTE, UN 3291
- Could also use "Clinical waste, unspecified, N.O.S." or "(BIO) Medical waste, N.O.S.", or "Biomedical waste, N.O.S." or "Medical waste, N.O.S."
- GROUND TRANSPORT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Package must not contain Category A pathogens
- Orientation arrows only required on combination packages containing liquid.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.
- <u>Click Here</u> for ground self-transport exceptions.









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REGULATED MEDICAL WASTE, N.O.S.



- REGULATED MEDICAL WASTE, UN 3291
- GROUND TRANSPORT according to 49 CFR 173.197
- PACKAGE MUST NOT CONTAIN CATEGORY A PATHOGENS
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BACK TO REGULATED MEDICAL WASTE, N.O.S.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.







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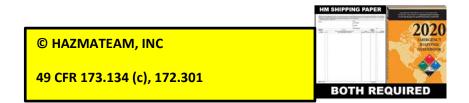


REGULATED MEDICAL WASTE, N.O.S. – exception



- REGULATED MEDICAL WASTE, UN 3291
- GROUND TRANSPORT Private or contact carrier (exclusive use vehicle) for Regulated Medical Waste
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Package must not contain Category A pathogens
- Follow package closure instruction of sharps container.
- Back to Regulated Medical Waste, N.O.S.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.
- <u>Click Here</u> for ground self- transport exceptions.









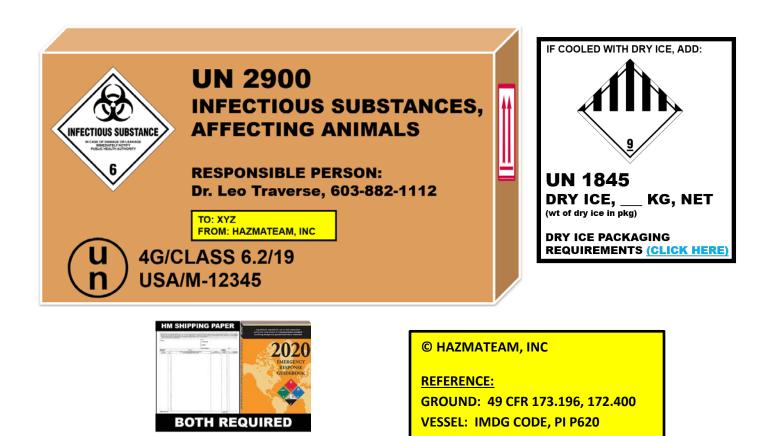


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CATEGORY A INFECTIOUS MATERIAL --- AFFECTING ANIMALS ONLY

- INFECTIOUS SUBSTANCES, AFFECTING ANIMALS, UN 2900
- VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- TECHNICAL NAMES ARE NOT REQUIRED ON PACKAGE MARK, BUT ARE REQUIRED ON SHIPPING PAPERS
- ORIENTATION ARROWS NOT REQUIRED FOR PRIMARY RECEPTACLES FILLED WITH SOLID OR PRIMARY
 RECEPTACLES FILLED WITH LIQUID NOT EXCEEDING 50 ML
- MUST "TRIPLE PACKAGE" FOLLOWING REFERENCES BELOW. PRIMARY OR SECONDARY PACKAGING MUST PASS 95 KPA PRESSURE TEST.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.









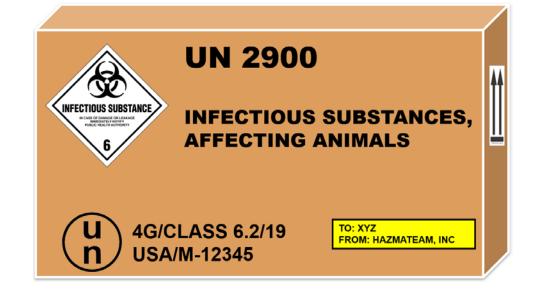






CATEGORY A INFECTIOUS MATERIAL --- AFFECTING ANIMALS ONLY

- INFECTIOUS SUBSTANCES, AFFECTING ANIMALS, UN 2900
- Ground Transport
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): Yes
- Technical names are not required on package mark, but are required on shipping papers
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following references below. Primary or secondary packaging must pass 95 kpa pressure test.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.





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REFERENCE: GROUND: 49 CFR 173.196, 172.301, 172.400

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION



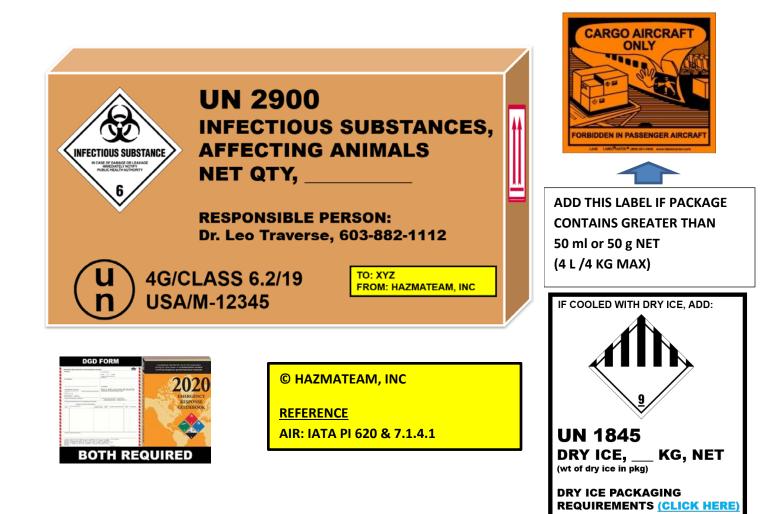
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CATEGORY A INFECTIOUS MATERIAL --- AFFECTING ANIMALS ONLY

- INFECTIOUS SUBSTANCES, AFFECTING ANIMALS, UN 2900
- Air Transport
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Technical names are not required on package marks, but are required on shipping papers.
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following references below. Primary or secondary packaging must pass 95 kpa pressure test.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.



NAVIGATE (CLICK):







DGD EXAMPLES

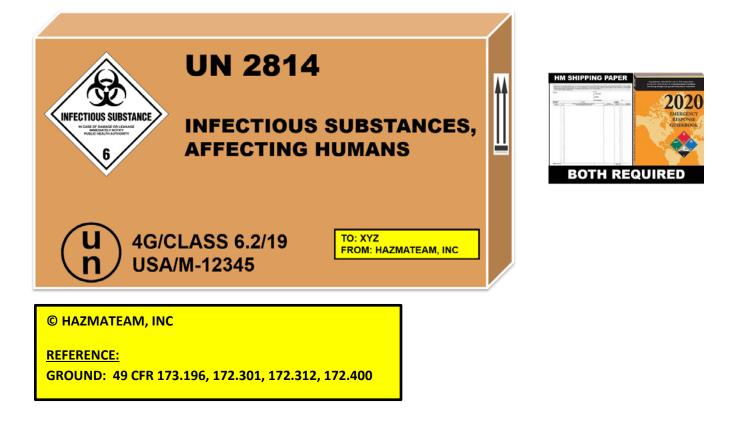
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CATEGORY A INFECTIOUS MATERIAL --- AFFECTING HUMANS

- INFECTIOUS SUBSTANCES, AFFECTING HUMANS, UN 2814
- Ground Transport
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Technical names are not required on package marks, but are required on shipping papers.
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following references below. Primary or secondary packaging must pass 95 kpa pressure test.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.







CATEGORY A INFECTIOUS MATERIAL --- AFFECTING HUMANS

- INFECTIOUS SUBSTANCES, AFFECTING HUMANS, UN 2814
- VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Technical names are not required on package marks, but are required on shipping papers.
- Orientation arrows not required for primary receptacles filled with solid or primary receptacles filled with liquid not exceeding 50 ml
- Must "triple package" following references below. Primary or secondary packaging must pass 95 kpa pressure test.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.





CATEGORY A INFECTIOUS MATERIAL --- AFFECTING HUMANS

- INFECTIOUS SUBSTANCES, AFFECTING ANIMALS, UN 2814
- AIR TRANSPORT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- TECHNICAL NAMES ARE NOT REQUIRED ON PACKAGE MARK, BUT ARE REQUIRED ON SHIPPING PAPERS
- ORIENTATION ARROWS NOT REQUIRED FOR PRIMARY RECEPTACLES FILLED WITH SOLID OR PRIMARY RECEPTACLES FILLED WITH LIQUID NOT EXCEEDING 50 ML
- MUST "TRIPLE PACKAGE" FOLLOWING REFERENCES BELOW. PRIMARY OR SECONDARY PACKAGING MUST PASS 95 KPA PRESSURE TEST.
- <u>Click Here</u> for OSHA Dry Ice and Bloodborne Pathogen labeling requirements.









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SHIPPING PAPER/DECLARATION EXAMPLES

The following are examples of completed shipping papers/declarations. Always consult the appropriate regulation for complete details:

USA Ground:	<u>49 CFR 172.200 (CLICK)</u>
International vessel:	IMDG Code, Volume 1, Chapter 5.4
International air:	IATA DGR, Section 8 (Note: New declaration format as of IATA 60 th Edition,
	2019; May use declaration illustrated in the 59 th Edition until 31-Dec-2024.

EXAMPLE #	MODE	CONSIGNMENT
<u>1 (click)</u>	Ground	UN 2900, Infectious substances, affecting animals
<u>2 (click)</u>	Ground	UN 2814, Infectious substances, affecting humans
<u>3 (click)</u>	Ground	UN 3291, Regulated medical waste, n.o.s.
<u>4 (click)</u>	Vessel	UN 2900, Infectious substances, affecting animals
<u>5 (click)</u>	Vessel	UN 2814, Infectious substances, affecting humans cooled with dry ice
<u>6 (click)</u>	Air	UN 2900, Infectious substances, affecting animals; cargo aircraft only
<u>7 (click)</u>	Air	UN 2814, Infectious substances, affecting humans cooled with dry ice



SHIPPING PAPER EXAMPLES								
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 1 FIBREBOARD BOX of a category A infectious substance affecting only animals; of UN 2900. Box contains 1 liter net infectious liquid; Box weighs 20 LB, GROSS; GROUND SHIPMENT

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OMAHA	State NE Zip Code 72111	24 hr. Emergency Conta	800-	424-9300; I		
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lo of Units ontainer Type	BASIC DESCRIPTON Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172 101,	172 202, 172 203	TOTAL QUANTIT (Weight, Volume, Gallons, etc)	(Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
OX (4G) 🗙	UN 2900, Infectious Substa	ances,	1 LITER (NE	Т)		
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NAVIGATE (CLICK):



SHIPPING PAPER EXAMPLES





• 2 boxes of Category A infectious materials that affect humans. Each box contains 750 ml of infectious liquid. Each box weighs 13 KG; GROUND SHIPMENT

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NAVIGATE (CLICK):



SHIPPING PAPER												
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Medical Waste Manifest form – No specific format. Many forms have the fill in the blank format as below. Note UN 3291 does not require technical names in parentheses following proper shipping name. This shipment consists of 11 X 4 cubic ft tubs and 6 x 4 cubic ft boxes. GROUND SHIPMENT

MEDICAL WASTE MAN	IFEST	-	cy Response Te 9300 (ACCT 112		
Generator's Name, Address a	nd Telephone Number	000-424			
St. Joes Hospital 1 Main Street Yourtown, NY 10001		IF USING 3 RD SERVICE, INC			
2A. DESCRIPTION OF WASTE	2B CONTAINER TYPE	2C. NO. OF CONTAINERS	2D. VOLUME		
UN 3291, Regulated Medical Waste, N.O.S., 6.2, PG II	TB01 – Reusable tub (4.0 cu ft)	11	44	Cu ft	NO. OF CONTAINERS
UN 3291, Regulated Medical Waste, N.O.S., 6.2, PG II	HW03 – Reusable tub (5.8 cu ft)			Cu ft	& TOTAL QTY
UN 3291, Regulated Medical Waste, N.O.S., 6.2, PG II	WW40 – Corrugated box (4.0 cu ft)	6	24	Cu ft	
UN 3291, Regulated Medical Waste, N.O.S., 6.2, PG II	WW45 – Corrugated box (4.5 cu ft)			Cu ft	
TOTALS		17	66	Cu ft	
packaged, marked and labeled, a regulations of the Department of	·	sportation according	to the applicable		TRAINED PERSON'S SIGNATURE
Printed Name: Mike Trout	Signature: Mike Tro	ut V	Date: 10-Ju	ly-2019	
Transporter Name, Address a	nd Telephone				
Acme Medical Waste Trans 12 Bluff Blvd Buffalo, NY 14201	888-XXX-XXX	x			
Transporter Certification: Rec	eipt of Medical Waste above				
Printed Name: Carlton Fisk	Signature: C. Fisk		Date: 10-Ju	ly-2019	
Designated Facility Name, Ad	dress and Telephone				
RMW Destruction, INC 1601 Pathogen Parkway Springfield, MA 01020	866-XXX-XXX	κx			
	en authorized by the applicable state ated wastes in accordance with the re				
Printed Name: Chris Sale	Signature: Christophe	r Sale	Date: 11-Jul	y-2019	



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	MULTIMODA	L DANGER	JUS G	OODS FOR	
1 Shipper/Consignor/Sender		² Tr INFECTIOU	JS – NA	AME AND PHO	ONE OF
HAZMATEAM, INC		3 Pr RESPONSI	BLE PE	RSON	
12 KIMBALL HILL ROAD					
HUDSON NH 03051 USA	Y	oking Number	5 Freight fo	rwarder's reference	
Responsible Person: Leo Tr	raverse, MD 603-882-1112	<u></u>			
6 Consignee		7 Carrier			
HAZMATEAM - JAMAICA					
21 RASTA WAY					
KINGSTON JAMAICA		IF USING 3RD	PARTY	ER PHONE SE	
		INCLUDE CON			
10 Vessel	11 Port of loading				
		I hereby declare that the cor ty the Proper Shipping Nam			curately described below d labelled/placarded and
		are in all respects in proper	condition for I		plicable international and
OUTSIDE USA, P	HONE # TO	national government regulat 9 Additional handling instruc			
INCLUDE INT'L A	CCESS CODE,	o ricensis in including instance			/
COUNTRY CODE	ETC.	24 HR ER - CHEMTRE	C 1-011-70	3-527-3887; Contract	ID - 123S3B
		/			
14 Shipping marks	') Number and kind of package	s: description of goods	1	Gross mass (kg) Net	Cube (m ³)
				12 KG 2 L	
IMDG EMS –	UN 2900, INFECT	IOUS SUBSTANC	ES,	12110 22	
COLUMN 15	AFFECTING ANIN	ALS (SHEEP PO)	X		
OF DGL	VIRUS), 6.2,				
DOT ERG -	EMS: F-A, S-T; DO	OT ERG 158			
	and the second second second second				
'ORANGE	2 (4G) FIBREBOA	RD BOXES			
BOOK' CODE					
PACKAGE	2			BOX 22	ALWAYS
CODES				REQUIRE	ES A
(EX – 4G)				CICLIATI	
A Revenue of the second second second				SIGNATU	JKF RÅ
OPTIONAL				TDAINER	
				TRAINED	·
15 Container identification No./	16 Seal number(s)	17 Cont./vehicle size & type	18 Tare m	SHIPPER	
				SHIFFER	
CONTAINER/VEHICLE PACKING		21 RECEIVING ORGANIZA	TION RECEI	PT	
I hereby declare that the good packed/loaded, packed togethe	er, into the container/vehicle	Received the above number unless stated hereon: RECE	of packages/	containers/trailers in appar	ent good order and condition,
identified above in accordance wit MUST BE COMPLETED AND S		unless stated hereon: RECE	IVING ORGA	NIZATION REMARKS:	
VEHICLE LOADS BY PERSON I	RESPONSIBLE FOR PACKING				
20 Name of company		Haulier's name		22 Name of co. of	shipper preparing this note
				HAZMATEAM	
		Vehicle reg. no			
Name/status of declarant		Signature and date		Name/status of dec	clarant
The second of decisions		-granate and date		Leo Traverse,	
Place and date		1		Place and date	
				Hudson, NH,	
Signature of declarant		Driver's signature		Signature of declar	
				Leo Trat	verse

MULTIMODAL DANGEROUS GOODS FORM







VESSEL SHIPMENT OF CATEGORY A INFECTIOUS MATERIALS AFFECTING HUMANS COOLED W/ DRY ICE. PACKAGE CONTAINS 1 LITER OF INFECTIOUS LIQUID & 5 KG OF DRY ICE; GROSS WT = 10 KG

	MULTIMODA	L DANGERO	US G	GOODS FORM	
1 Shipper/Consignor/Sender HAZMATEAM, INC 12 KIMBALL HILL ROAD		^{2 Tr} INFECTIOUS ^{3 Pi} RESPONSIBI		ME AND PHONE OF SON	
HUDSON NH 03051 USA Responsible Person: Leo Tra	WORDS MD 603 992 1112	King Number	5 Freight fo	prwarder's reference	
6 Consignee	averse, MD 603-662-1112	7 Carrier			
HAZMATEAM - JAMAICA 21 RASTA WAY					
KINGSTON JAMAICA	11 Port of loading			ARTY ER PHONE SER RACT NUMBER	
		I hereby declare that the con ty the Proper Shipping Name are in all respects in proper of	, and are cl ondition for	consignment are fully and accurately assified, packaged,marked transport according to the able	y described below led/placarded and e international and
12 P OUTSIDE USA,		national government regulation 9 Additional handling instruct			
INCLUDE INT'L COUNTRY COD	· · · · ·	24 HR ER - CHEMTRE	C 1-011-7	03-527-3887; Contract ID – 123	3S3B
14 Shipping marks	*) Number and kind of package	s: description of goods		Gross mass (kg) Net	Cube (m ³)
	UN 2814, INFECTIO	OUS SUBSTANCES		1 L	
IMDG EMS –	AFFECTING HUMA				
COLUMN 15 OF DGL	EMS: F-A, S-T, DO	T ERG 158			
	UN 1845, DRY ICE	. 9.		5 KG	
DOT ERG – 'ORANGE BOOK' CODE	EMS: F-C, S-V, D(
	ABOVE PACKED BOX	IN ONE FIBREBO	ARD	10 KG	
SIGN BOX 20	ONLY IF			BOX 22 ALWA	YS
LOADING FR	EIGHT CTN	17 Cont./vehicle size & type	18 Tareı	REQUIRES A	
CONTAINER/VEHICLE PACKING I hereby declare that the goods	described above have been	21 RECEIVING ORGANIZAT		SIGNATURE B	SY .
packed/loaded, packed together identified above in accordance with MUST BE COMPLETED AND SIG VEHICLE LOADS BY PERSON R	GNED FOR ALL CONTAINER/	Received the above number unless stated hereon: RECEI	of package VING ORC	TRAINED SHI	PPER
LOADING 20 Name of company		Haulier's name		22 Name of co. of shipper p	reparing this note
		Vehicle reg. no		HAZMATEAM	
Name/status of declarant		Signature and date		Name/status of declarant Leo Traverse, Shipper	r
Place and date				Place and date Hudson, NH, 1-JAN	
Signature of declarant		Driver's signature		Signature of declarant Leo Traverse	

NAVIGATE (CLICK):







EMERGENCY RESPONSE INFORMATION

AIR SHIPMENT OF ONE PACKAGE OF CATEGORY A INFECTIOUS MATERIALS AFFECTING ANIMALS ONLY. MUST GO CARGO AIRCRAFT ONLY AS THE 50 GRAM PASSENGER LIMIT IS EXCEEDED.

12	AZMATEAM, INC : KIMBALL HILL RC JDSON, NH 03051	DAD				Air Waybill No. 698 Page 1 of 1 Shipper's Reference N (optional)	Pages	
1	YZ PATHOLOGY 23 MAIN STREET PHOENIX, AZ 7777	7				TIOUS - NAME AI DNSIBLE PERSON	ND PHONE OF	
	ponsible for Shipment: pleted and signed copies o			he operator				
				-		AIRWAYBILL #, A DEPARTURE OR		
This shipn (delete non-a		ns prescribed for:	Airport of Depa MANCHESTE			CAN BE COMPLE	TED BY AIRLI	NE
AIRCRA	GER CARGO AIRCRAFT FT ONLY							
Airport of	Destination PHOENI	(, AZ			[Shipment Type (delete non-a NON-RADIOACTIVE	pplicable)	
NATURE A	and quantity of dai	igerous goods	;					
	Dangero	us Goods Identific	ation	Class	····		Pastring	
UN or D No.	Proper Ship	ping Name		Class or Division (Subsidiary Hazard)	Group	Quantity and Type of Packing	Packing Instruc- tions	ation
UN 2900	INFECTIOUS AFFECTING A			6.2		1 FIBREBOARD BOXES x 100 GRAMS	620	
-	TA ERG CODE F 6 - 'ORANGE B(GL;		JMBER OF PA T WT PER PA		K
	Handling Information IC Telephone Number C						A, PHONE # TO ''L ACCESS COD DDE, ETC	E,
hereby dec escribed al parked and	clare that the contents of bove by the proper shipp labelled/placarded, and NG 3 RD PARTY EI	his consignment au ing name, and are ure in all respects in	re fully and accur classified, packad proper condition		ne of signa			
	DE CONTRACT N			Sign	ature	Paul J. Dam	1. P	

NAVIGATE (CLICK):

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SHIPPING PAPER EXAMPLES



AIR SHIPMENT OF A PACKAGE CONTAINING 10 ML OF CATEGORY A INFECTIOUS MATERIALS AFFECTING HUMANS (UN 2814) PLUS 10 KG OF DRY ICE.

12	ZMATEAM, INC KIMBALL HILL ROAD IDSON, NH 03051				Air Waybill No. 6980 Page 1 of 1 F Shipper's Reference Nu (optional)	2ages Imber
Person Resp Two comp This sh (delete no p PASSEN(AND CA AIRCRAI	PMENT OK FOR PA ent is within the limitations prescribed for <i>pplicable</i> SER RGO T	SSENGER	12 e operator. AIR nure		OUS – NAME AND ISIBLE PERSON AIRWAYBILL #, A DEPARTURE OR CAN BE COMPLE AIRLINE applicable Dangerous may be in breach of the ject to legal penalties.	AIRPORTS OF DESTINATION TED BY Goods Regulations applicable law, sub-
	Destination PHOENIX, AZ			[Shipment Type (delete non-app NON-RADIOACTIVE	plicable)
NATURE A	ND QUANTITY OF DANGEROUS GOOI Dangerous Goods Identi	- ·			1	1 1
UN or ID No.	Proper Shipping Name		Class or Division (Subsidiary Hazard)		Quantity and Type of Packing	Packing Instruc- tions
UN 2814	INFECTIOUS SUBSTANCE AFFECTING HUMANS (La		6.2		10 ML	620
UN 1845	DRYICE		9		10 KG ABOVE PACKED IN	954
•	ERG CODE FROM COLUN 'ORANGE BOOK' CODE	/IN N OF DGL;			ONE FIBREBOARD BOX	
Additional F	Iandling Information UN 2814 ICAC			l		IN SAME PKG
Emergency '	UN 1845 ICAC Telephone Number INFOTRAC, 80	0/IATA ERG CODI 00-535-5053 (CO	E: 9L ; DC	OT ERG	120 INCLUDE IN	T'L ACCESS CODE,
described at	lare that the contents of this consignment ove by the proper shipping name, and a G 3 RD PARTY ER PHONE S	re classified, package	Nam Date	e of signa	Steph Travers	
INCLUD	E CONTRACT NUMBER;		Signa	ture	, Steph Travers	



SHIPPING PAPER EXAMPLES									
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				F					
1	A Control	000	III						



EXCEPTIONS FOR SELF-TRANSPORT

There are two exceptions in 49 CFR that allows for the self-transport of certain biological materials without having to comply with the Hazardous Materials Regulations in its entirety. Refer to citations below for full details. The HAZMATEAM online Transportation of Infectious Materials Training course addressed these exceptions.

These exceptions are limited to Motor Vehicle (ground) only and *are not* for Category A infectious materials!

1) 49 CFR 173.134 (b)(10)

- Infectious substances (including Category B) contained in *a patient sample* being transported for research, diagnosis, investigational activities, or disease treatment or prevention, or a biological product **are not regulated by 49 CFR** when transported ground via private or contract carrier used exclusively to ship these materials. Cannot ship Category A per this exception.
- This exception may not be applied to Regulated Medical Waste

2) 49 CFR 173.6 --- MATERIAL OF TRADE EXCEPTION (MOT)

The following may be shipped as a Material of Trade (as defined in 49 CFR 171.8):

A Division 6.2 material (incl. Category B) contained in **human or animal samples** (including, but not limited to, secreta, excreta, blood and its components, tissue and tissue fluids, and body parts) being transported for research, diagnosis, investigational activities, or disease treatment or prevention, or is a biological product or regulated medical waste.

Infectious (other than Category A) Material of Trade requirements:

- Regulated Medical Waste may be shipped according to this exception
- Transported via private carrier in conjunction with its principal business (ex, mobile test lab).
- The material must be contained in a combination packaging (inners ctns. inside outer pkg).
- For liquids, outer package must be leakproof and contain enough absorbent material to absorb all contents.
- For sharps, the sharps container (inner ctn) must be constructed of a rigid material resistant to punctures and securely closed to prevent leaks or punctures.
- The outer packaging must be a strong, tight packaging securely closed and for sharps: puncture resistant.
- Each package must be marked with a common name. Package limits:
 - Each package may not contain more than 0.5 kg (1.1 lbs) or 0.5 L (17 ounces), and an outer packaging containing not more than 4 kg (8.8 lbs) or 4 L (1 gallon); or
 - A single inner packaging containing not more than 16 kg (35.2 lbs) or 16 L (4.2 gallons) in a single outer packaging
 - **For a regulated medical waste**: a combination packaging must consist of one or more inner packagings, each of which may not contain more than 4 kg (8.8 lbs) or 4 L (1 gallon), and an outer packaging containing not more than 16 kg (35.2 lbs) or 16 L (4.2 gallons).
- Total of 440 lbs gross weight of all MOT per vehicle.





DRY ICE PACKAGING

There are three important hazards to remember while handling Dry Ice:

- 1) **Asphyxiation.** Dry ice, or Carbon Dioxide, solid, sublimates to form Carbon Dioxide gas (heavier than air). Handling and storage locations must be well ventilated. There have been numerous reports of fatalities of individuals suffocating in poorly ventilated Dry Ice storage areas.
- 2) **Contact Hazard.** Dry ice is a cryogenic material that causes severe frostbite upon contact with skin. The temperature of Dry Ice is -79 °C (-107 ° F).
- 3) **Explosion Hazard.** Dry Ice has an expansion ratio of 1:554. As such, packages need to be designed to prevent the build-up of Carbon Dioxide gas.

When assembling a package containing Dry Ice, consider the following safety/packaging procedures:

- Always handle dry ice in a well-ventilated area.
- Wear eye/face protection and cryogenic gloves when handling dry ice.
- Never seal dry ice in a container with an airtight seal such as a container with a threaded lid, ziplock bag, or cooler
- Place the dry ice outside the sealed primary and secondary receptacles
- Secure the secondary packaging with interior supports such that the original orientation of the primary receptacle is maintained after the dry ice melts. Always follow package closure instructions.
- Always use an insulated package (ex- Styrofoam cooler inside a box).
- Package should not contain more than 200 KG of Dry Ice (IATA per package limit).
- Only properly trained individuals may handle this material.







OSHA Hazard Communication Standard (29 CFR 1910.1200).

The Hazard Communication Standard requires employers/chemical manufacturers to provide information concerning hazardous chemicals via labels, safety data sheets, training and written programs. Consult 1910.1200 for complete details. Note: Per 29 CFR 1910.1200 (b)(6), this standard does not apply to Biological Hazards or Drugs as defined in the Federal Food, Drug, and Cosmetic Act.

Dry Ice Labeling Requirements*:

Containers of Dry Ice handled by employees must have the following information:

Signal Word:	Warning
Hazard Statement:	May displace oxygen and cause rapid suffocation
Pictogram:	None
Hazards not otherwise classified:	Contact with cryogenic liquid can cause frostbite and cryogenic burns.

* LABEL ELEMENTS MUST BE ADDED FOR OTHER HAZARDOUS CHEMICALS (STABILIZERS, ETC), IF PRESENT.

OSHA Bloodborne Pathogen Standard (29 CFR 1910.1030).

The Bloodborne Pathogen standard has requirements for employers where pathogens are potentially present – exposure control plans, engineering, work practice controls, vaccinations, others. Consult 29 CFR 1910.1030 for complete details.

According to 1910.1030(g)(1)(i)(A), the warning label below shall be affixed to containers of regulated waste, refrigerators and freezers containing blood or other potentially infectious material; and other containers used to store, transport or ship blood or other **potentially** infectious material.



This label is affixed to the container handled by the employee. If a combination package is used, this label would be affixed to the primary or secondary package, not the outer package.

Note: this label would be on the outer shipping container when shipping single packages of OSHA regulated material or packages of Regulated Medical Waste, N.O.S. shipped by contract or private carrier.



EMERGENCY RESPONSE INFORMATION

When shipping papers (Bill of lading forms, Dangerous Goods Declaration forms) are required, all hazardous shipments to, from or through the United States must have written emergency response information accompany the shipment. This written document is typically either an SDS for the material or the applicable ERG pages from the DOT Emergency Response Guidebook (i.e., 'Orange Book'). The applicable ERG Codes from the Orange Book - Guide 158 for infectious materials and/or Guide 120 for Dry Ice.

On each shipping paper example provided in this guide, DOT ERG GUIDE 158 is referenced. DOT ERG GUIDE 120 is referenced on air and vessel shipments of Dry ice. Simply writing the guide number only on the BOL/declaration does not meet the emergency response information requirements described in <u>49 CFR 172.602</u>. Written information (the SDS, ERG pages or entire ERG book) must be provided along with the shipping paper.

All shipping papers for shipments from, to or through the United States must also have 24-hour emergency telephone number, as described in <u>49 CFR 172.604</u>. Each shipping paper example provided in this guide illustrates placement of the ER phone number. § 172.604 requires a numeric emergency response telephone number, including the area code, for use in an emergency involving the hazardous material. For telephone numbers outside the United States, the international access code or the "+" sign, country code, and city code, as appropriate, that are needed to complete the call must be included.

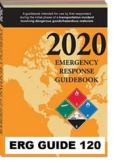
The shipping paper examples provided in this guide also reference emergency response guidebooks used by personnel on vessels or aircraft. The vessel and aircraft guides referenced are:

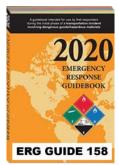
IMDG CODE: The EMS Code referenced in column 15 of the IMDG Dangerous Goods List (DGL) is listed in *"The EmS Guide – Emergency Response Procedures for Ships Carrying Dangerous Goods".*

IATA DGR: The IACO/IATA ERG Code referenced in Column N of the IATA DGR Dangerous Goods List (DGL) is the Emergency Response Drill Code as found in the International Civil Aviation Organization (IACO) document, *"The Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods" (ICAO Doc. 9481-AN/928*).

The IMDG Code and IATA DGR emergency response information described on the shipping paper examples in this guide are for the benefit of the operator of the vessel or aircraft.



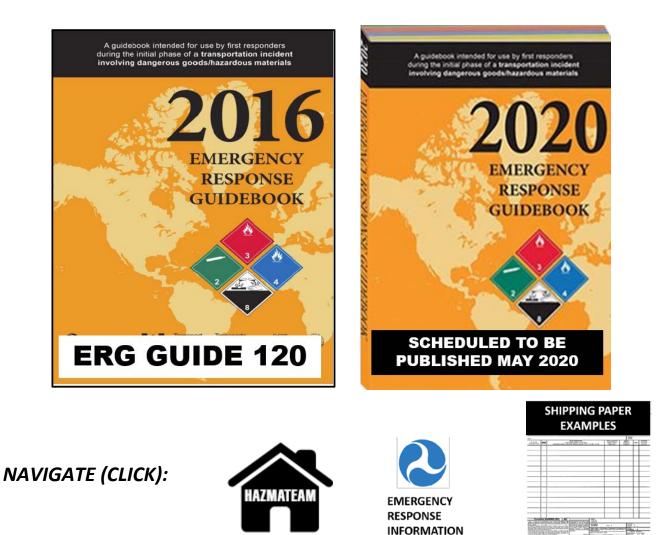




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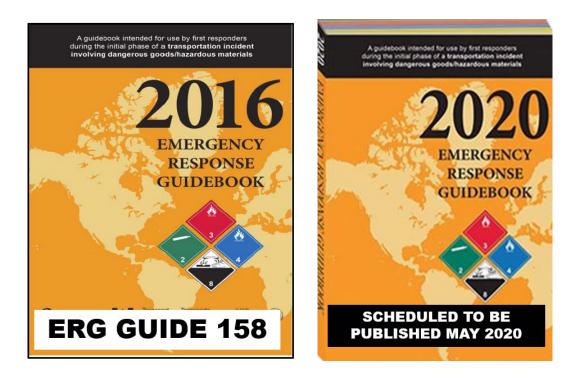
EMERGENCY RESPONSE GUIDE #120 – NEXT PAGE

(THE ERG GUIDE PAGE, AN SDS FOR THE MATERIAL OR THE ENTIRE ERG BOOK MUST ACCOMPANY WHEN DRY ICE MUST BE DESCRIBED ON A SHIPPING PAPER)



EMERGENCY RESPONSE GUIDE #158 – NEXT PAGE

(THE ERG GUIDE PAGE, AN SDS FOR THE MATERIAL OR THE ENTIRE ERG BOOK MUST ACCOMPANY SHIPMENTS OF UN 2814, UN 2900 OR UN 3291)









PACKAGE TEST REQUIREMENTS

Category A infectious materials require UN Specification packaging.

Packages of Category B infectious materials do not require UN Specification packaging, but do require some degree of package testing.

The following pages summarizes package test requirement for biological materials via ground (USA), air and vessel.

HAZMATEAM, INC. offers package testing services.

Call 603-882-1112 for more information or for a quote.

CATEGORY B INFECTIOUS MATERIALS ¹

PACKAGE	VIBRATION TEST ²	DROP TEST ²	PRESSURE TEST ³
UN 3373 GROUND	\odot	\bigcirc	
UN 3373 AIR	\bigcirc	\bigcirc	
UN 3373 AIR - LIQUIDS	\bigcirc	\bigcirc	\odot
UN 3373 VESSEL	\odot	$\overline{\mathbf{O}}$	
UN 3373 VESSEL - LIQUIDS	\bigcirc	\bigodot	\odot

- 1- Does not require UN Specification packaging
- 2- 173.199 (a)(4), IMDG PI 650 (6) and IATA PI 650
- 3- Ref: 49 CFR 173.199 (b)(4), IATA PI 650 (a)(5) and IMDG PI 650 (7).



CATEGORY A INECTIOUS MATERIALS REQUIRING (U) PACKAGING

PACKAGE	AIR TRANSPORT	VESSEL	DOMESTIC USA		
		TRANSPORT	GROUND TRANSPORT		
	налиатеам	HAZMATEAM	HAZMATEAM		
UN 2900	\bigcirc	\bigcirc	\bigcirc		
UN 2814	\bigcirc	\bigcirc	\bigcirc		

NOTE: All Category A infectious packages (liquids or solids): primary or secondary receptacle must pass 95 kPa pressure test. Ref: 49 CFR 173.196 (a)(6), IMDG PI 620 and IATA PI 620.



DISCLAIMER

This guide provides a very basic summary of regulatory requirements. The user must follow the appropriate shipping requirements of IMDG/DOT/IATA Hazmat-DG regulations, as well as the OSHA Bloodborne Pathogen standard. HAZMATEAM, INC shall not be held liable for any damage resulting from handling or from contact with the products described in this guide.

The user of this guide must be trained and use the classification, packaging instructions and guidance in the most recent versions of the applicable DG regulations (IMDG, IATA, ICAO, 49 CFR and/or other country specific DG regulations). In addition, employers must ensure workers are following all applicable OSHA handling, packing and labeling procedures: OSHA 29 CFR 1910.1030, 1904.8, 1910.145, 1910.151, 1910.132 to 1910.138, 1910.1200 and 1910.1450.

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