TRANSPORT DATA SHEET
CARTRIDGES, SMALL ARMS

Mode of Transportation: *International Vessel (Container Ships)*

This is not an official document. It may be used for quick reference but is not intended to guarantee regulatory compliance.

PRODUCT OVERVIEW

Proper Shipping Name	Cartridges, small arms		
Identification Number	UN0012	**Hazard Class**	1.4S
Mode of Transportation	International Vessel (Container Ships)		
Commodity	Ammunition consisting of a cartridge case fitted with a center or rim fire primer and containing both a propelling charge and solid projectile(s). They are designed to be fired in weapons of caliber not larger than 19.1 mm. Shotgun cartridges of any caliber are included in this description. The term excludes: *Cartridges, small arms, blank*, and some military small arms cartridges listed under *Cartridges for weapons, inert projectile.*		

Executive Summary

The package, overpack and IMO Dangerous Goods Declaration should appear like the images below. The UN number, proper shipping name, and 1.4S mark should be located together, printed on or affixed to a single side or the top of the outer packaging.

Package Approach

Typical Manufacturer Approach



Typical Pallet Overpack



Completing an IMO Dangerous Goods Declaration (IMO)

Below is an example of how to complete the IMO Dangerous Goods Declaration (IMO) for this scenario.

14 Shipping Marks	Number and Kind of Packages, Description of Goods	GW (kg)	CUBE (m3)
	UN0012, CARTRIDGES, SMALL ARMS, 1.4S **40 plywood boxes, Total NEM 48 kg**	**514 kg**	

Reference the Shipping Paper Requirements section of this document for additional details.

DANGEROUS GOODS LIST

UN No.	Proper shipping name (PSN)	Class or division	Subsidiary hazard(s)	Packing group	Special provisions	Limited and excepted quantity provisions		Packing		IBC	
						Limited quantities	Excepted quantities	Instructions	Provisions	Instructions	Provisions
(1)	(2) 3.1.2	(3) 2.0	(4) 2.0	(5) 2.0.1.3	(6) 3.3	(7a) 3.4	(7b) 3.5	(8) 4.1.4	(9) 4.1.4	(10) 4.1.4	(11) 4.1.4
0012	CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS	1.4S	--	--	364	5 kg	E0	P130 LP101	--	--	--

Portable tanks and bulk containers			EmS	Stowage and handling	Segregation	Properties and observations	UN No.
	Tank instructions	Provisions					
(12)	(13) 4.2.5 4.3	(14) 4.2.5	(15) 5.4.3.4 7.8	(16a) 7.1 7.3 - 7.7	(16b) 7.2 - 7.7	(17)	(18)
--	--	--	F-B, S-X	Category 01 SW1	--	See glossary of terms in appendix B.	0012

Any blank column of the Dangerous Goods List is not applicable.

Citation: IMDG Code Part 3 – Dangerous Goods List

CLASSIFICATION

Cartridges, small arms, 50 caliber or less, with inert bullets (including tracers, but not incendiary or exploding bullets) may be self-classified by the manufacturer as Division 1.4S explosives per 49 C.F.R. § 173.56(h). No EX-approval is required.

Cartridges above 50 Cal/8 gauge require an EX approval.

Citation: 49 CFR § 173.56(h)

STOWAGE

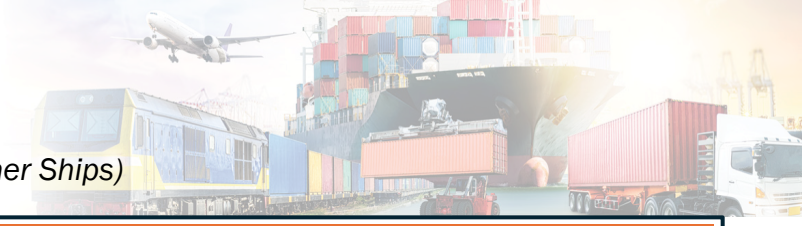
Stowage means the proper placement of dangerous goods on board a ship. Stowage requirements are unique to ocean transportation and do not apply to road, rail, or air shipments. There are five stowage categories for Class 1 dangerous goods, which authorize stowage locations on cargo and passenger ships ranging from under deck, on deck, or prohibited.

7.1.3.1 Stowage categories for class 1

Dangerous goods of class 1 other than division 1.4, compatibility group S, packed in limited quantities shall be stowed as indicated in column 16a of the Dangerous Goods List in accordance with one of the categories specified below.

Stowage category 01	Cargo ships (up to 12 passengers)	On deck in closed cargo transport unit or under deck
	Passenger ships	On deck in closed cargo transport unit or under deck

Citation: IMDG Code § 7.1 – General stowage provisions



SEGREGATION

Dangerous goods shipped by vessel are subject to severe segregation requirements. Small arms ammunition which is not shipped as LQ may only be packed with Division 6.1 and Class 9.

Below are the IMDG Code “Segregation Table” and “Segregation of Goods of Class 1” table.

7.2.4 Segregation of Dangerous Goods (Vessel)

CLASS OR DIVISION		1.1 1.2 1.5	1.3 1.6	1.4	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8	9
EXPLOSIVES	1.1, 1.2, 1.5	SEE 7.2.7.1			4	2	2	4	4	4	4	4	4	2	4	2	4	X
EXPLOSIVES	1.3, 1.6				4	2	2	4	3	3	4	4	4	2	4	2	2	X
EXPLOSIVES	1.4				2	1	1	2	2	2	2	2	2	X	4	2	2	X
FLAMMABLE GASES	2.1	4	4	2	X	X	X	2	1	2	2	2	2	X	4	2	1	X
NON-TOXIC, NON-FLAMMABLE GASES	2.2	2	2	1	X	X	X	1	X	1	X	X	1	X	2	1	X	X
TOXIC GASES	2.3	2	2	1	X	X	X	2	X	2	X	X	2	X	2	1	X	X
FLAMMABLE LIQUIDS	3	4	4	2	2	1	2	X	X	2	2	2	2	X	3	2	X	X
FLAMMABLE SOLIDS, SELF-REACTIVE SUBSTANCES, SOLID DESENSITIZED EXPLOSIVES AND POLYMERIZING SUBSTANCES	4.1	4	3	2	1	X	X	X	X	1	X	1	2	X	3	2	1	X
SUBSTANCES LIABLE TO SPONTANEOUSLY COMBUSTIBLE	4.2	4	3	2	2	1	2	2	1	X	1	2	2	1	3	2	1	X
SUBSTANCES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	4.3	4	4	2	2	X	X	2	X	1	X	2	2	X	2	2	1	X
OXIDIZING SUBSTANCES (AGENTS)	5.1	4	4	2	2	X	X	2	1	2	2	X	2	1	3	1	2	X
ORGANIC PEROXIDES	5.2	4	4	2	2	1	2	2	2	2	2	2	X	1	3	2	2	X
TOXIC SUBSTANCES	6.1	2	2	X	X	X	X	X	X	1	X	1	1	X	1	X	X	X
INFECTIOUS SUBSTANCES	6.2	4	4	4	4	2	2	3	3	3	2	3	3	1	X	3	3	X
RADIOACTIVE MATERIALS	7	2	2	2	2	1	1	2	2	2	2	1	2	X	3	X	2	X
CORROSIVE LIQUIDS	8	4	2	2	1	X	X	X	1	1	1	2	2	X	3	2	X	X
MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES	9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

DG ADVISOR

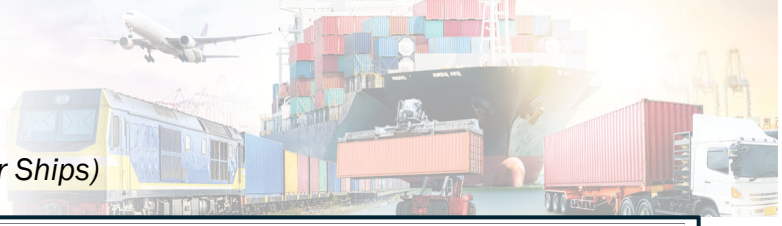
1 Away From
2 Separated From
3 Separated by a complete compartment or hold form
4 Separated longitudinally by an intervening complete compartment or hold form

X The Dangerous Goods List has to be consulted to verify whether there are specific segregation provisions

Since the properties of substances, materials or articles within each class may vary greatly, the Dangerous Goods List shall always be consulted for particular provisions for segregation as, in the case of conflicting provisions, these take precedence over the general provisions.

REVISED: 07/09/2025

The numbers and symbols in the table have the following meanings:
1 - "away from"
2 - "separated from"
3 - "separated by a complete compartment or hold from"
4 - "separated longitduinally by an intervening complete compartment or hold from"
X - the Dangerous Goods List has to be consulted to verify whether there are specific segregation provisions
* - see 7.2.7.1 of this chapter for the segregation provisions between class 1 substances or articles



7.2.7 - Segregation of Goods of Class 1 (Explosive) Materials (Vessel)

COMPATIBILITY GROUP	A	B	C	D	E	F	G	H	J	K	L	N	S
A	X												
B		X											X
C			X	X^6	X^6		X^1					X^4	X
D			X^6	X	X^6		X^1					X^4	X
E			X^6	X^6	X		X^1					X^4	X
F						X							X
G			X^1	X^1	X^1		X						X
H								X					X
J									X				X
K										X			X
L											X^2		
N			X^4	X^4	X^4							X^3	X^5
S		X	X	X	X	X	X	X	X	X		X^5	X

DG ADVISOR

X — *Indicates that good of the corresponding compatibility groups may be stowed in the same compartment, hold, or closed cargo transport unit.*

X^1 — *Explosive articles in compatibility group G (other than fireworks) may be stowed with explosive articles of compatibility groups C, D and E provided no explosive substances are transported in the same compartment or hold, or closed cargo transport unit.*

X^2 — *A consignment of one type in compatibility group L shall only be stowed with a consignment of the same type within compatibility group L.*

X^3 — *Different types of articles of Division 1.6, compatibility group N, may only be transported together when it is proven that there is no additional risk of sympathetic detonation between the articles. Otherwise they shall be treated as division 1.1.*

X^4 — *When articles of compatibility group N are transported with articles or substances of compatibility groups C, Dor E, the goods of compatibility group N shall be treated as compatibility group D.*

X^5 — *When articles of compatibility group N are transported together with articles or substances of compatibility group S, the entire load shall be treated as compatibility group N.*

X^6 — *Any combination of articles in compatibility groups C, D and E shall be treated as compatibility group E. Any combination of substances in compatibility groups C and D shall be treated as the most appropriate compatibility group shown in 2.1.2.3, taking into account the predominant characteristics of the combined load. This overall classification code shall be displayed on any label or placard placed on a unit road or closed cargo transport unit as prescribed in 5.2.2.2.2.*

REVISED: 10/15/2026

Compatibility Group S ammunition can be packed with any Group other than Groups A & L.

Citation: IMDG Code § 7.2 – General segregation provisions

PACKAGING INFORMATION

Packing Instruction 130

1. Pursuant to the Dangerous Goods List, Packing Instruction 130 applies.

P130	PACKING INSTRUCTION	P130
The following packagings are authorized, provided the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met.		
Inner packagings	Intermediate packagings	Outer packagings
Not necessary	*Not necessary*	Boxes steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) Drums steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
Special packing provision: PP67 The following applies to UN Nos. 0006, 0009, 0010, 0015, 0016, 0018, 0019, 0034, 0035, 0038, 0039, 0048, 0056, 0137, 0138, 0168, 0169, 0171, 0181, 0182, 0183, 0186, 0221, 0243, 0244, 0245, 0246, 0254, 0280, 0281, 0286, 0287, 0297, 0299, 0300, 0301, 0303, 0321, 0328, 0329, 0344, 0345, 0346, 0347, 0362, 0363, 0370, 0412, 0424, 0425, 0434, 0435, 0436, 0437, 0438, 0451, 0488, 0502 and 0510: large and robust explosives articles, normally intended for military use, without their means of initiation or with their means of initiation containing at least two effective protective features, may be transported unpackaged. When such articles have propelling charges or are self-propelled, their ignition systems shall be protected against stimuli encountered during normal conditions of transport. A negative result in Test Series 4 on an unpackaged article indicates that the article can be considered for transport unpackaged. Such unpackaged articles may be fixed to cradles or contained in crates or other suitable handling devices. **Note:** The packagings authorized may exceed a net mass of 400 kg (see 4.1.3.3).		

2. The package must be tested and certified not to leak under normal transport conditions.
3. The maximum gross weight is limited to 400 kg (882 pounds) per package.

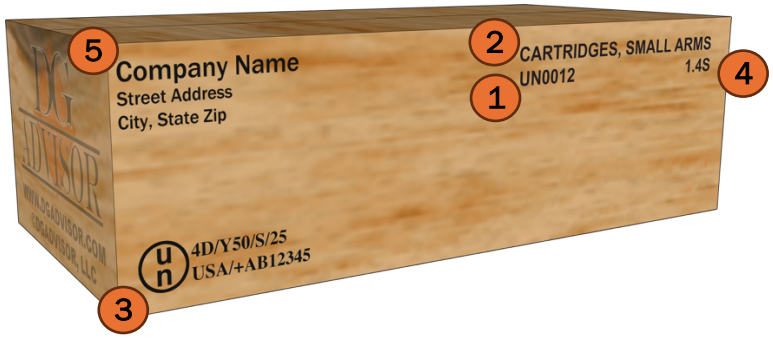
Citation: IMDG Code Packing Instruction 130

PACKAGE LABELING & MARKING

Below is a summary of the hazard communication requirements for the package.

Typical Manufacturer Approach





Application of Labels & Marks

The following label(s) and/or mark(s) are required for this package. Labels and marks can be pre-printed or affixed as stickers. Stickers must must be affixed relatively straight and the label(s) and mark(s) must not wrap around an edge.

1. **UN Number**
   A UN number, or United Nations identification number, is a four-digit code that identifies dangerous goods for transportation.
2. **Proper Shipping Name**
   A proper shipping name (PSN) is a standardized name used to identify a dangerous good during transportation.
3. **A specification package must be used with the package test certification mark**
   Class 1 Explosives must meet the Packing Group II package testing requirements as listed in the IMDG Code Chapter 6.1 - Provisions for the construction and testing of packagings.
4. **1.4S Mark**
   IMDG Code § 5.2.1.1 states, "[f]or goods of division 1.4, compatibility group S, the division and compatibility group letter shall also be marked unless the label for 1.4S is displayed." By pre printing "1.4S," shippers make their UN0012 packages compliant for ocean transport. Voluntarily marking packages with "1.4S" is acceptable, but not required, for other modes of transport. Shippers may wish to pre-print "1.4S" on packages normally intended for road transport, just in case these packages happen to be offered for ocean transport, to avoid the need to add 1.4S hazard labels.
5. **(Optional) Consignor or consignee's name and address**
   While neither the consignor or consignee's name and address are required, in practice the shipper should mark their name and address on the package.

Citation: IMDG Code § 5.2.1.1; 6.1.3.1

OVERPACKS

An overpack is an enclosure that is used by a single consignor to provide protection or convenience in handling of a package or to consolidate two or more packages. Overpacks do not include a transport vehicle, freight container, or aircraft unit load device. Examples of overpacks are one or more packages:

1. Placed or stacked onto a load board such as a pallet and secured by strapping, stretch wrapping, or other suitable means; or
2. Placed in a protective packaging such as a box or crate.

Packages in an overpack must be prepared such that they could be compliantly transported without the overpack, including any required marks and hazard or handling labels. Stretch wrap or other coverings are not a substitute for correctly prepared packages.

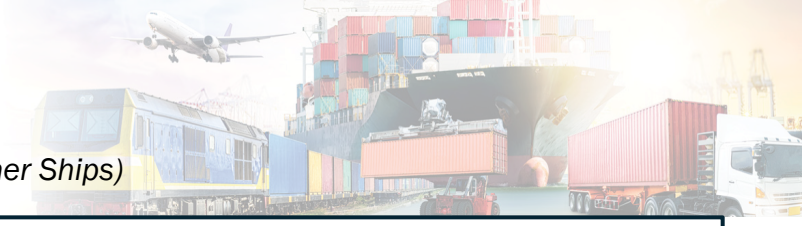
When preparing an overpack:

- Overpacks must not be marked with a package test certification unless they are tested.
- The overpack must be marked "OVERPACK" when a package test certification mark is required on a package inside the overpack. This is not required if the hazard communication is visible at least once from the outside of the overpack.
- When the OVERPACK mark is required, also replicate the hazard communication on the overpack. EX numbers and package certification marks do not need to be replicated on overpacks. If a shipment of UN0012 is overpacked with other goods prepared in accordance with a special permit, the special permit number may need to be replicated on the overpack, depending on the terms of the special permit.
- When required, the word OVERPACK shall be at least 12 mm (1/2") high, preferably 1 inch tall.
- The border surrounding the word "OVERPACK" is optional. A piece of paper including the required overpack marks is often affixed to a pallet instead of an overpack sticker, and a border is not typically used for the word "OVERPACK."
- If there is more than one UN number in an overpack, write each UN number and the total quantity of dangerous goods for each UN number.
- If there are two or more overpacks, name and mark each pallet with a unique identification mark (which may be in any alpha-numeric format) and the total quantity of dangerous goods, as indicated on the Dangerous Goods Declaration.

Example of the OVERPACK mark



Since there is so much information required, shippers may find it more convenient to print "**OVERPACK**" on a piece of paper instead, with "**OVERPACK**" and the UN number at least ½" tall, and affix the paper to each pallet as described on the shipper's declaration (see examples below).



Single overpack shipment label example

OVERPACK

FROM:
Company Name
Street Address
City, State Zip
Country

TO:
Bristol Supply
42 Victoria Road
London, LND NW4 2RP
United Kingdom

UN 0012
Cartridges, small arms, 1.4S

Multiple overpack shipment label examples

OVERPACK #1

FROM:
Company Name
Street Address
City, State Zip
Country

TO:
Bristol Supply
42 Victoria Road
London, LND NW4 2RP
United Kingdom

UN 0012
Cartridges, small arms, 1.4S

OVERPACK #2

FROM:
Company Name
Street Address
City, State Zip
Country

TO:
Bristol Supply
42 Victoria Road
London, LND NW4 2RP
United Kingdom

UN 0012
Cartridges, small arms, 1.4S

OVERPACK #3

FROM:
Company Name
Street Address
City, State Zip
Country

TO:
Bristol Supply
42 Victoria Road
London, LND NW4 2RP
United Kingdom

UN 0012
Cartridges, small arms, 1.4S

OVERPACK #4

FROM:
Company Name
Street Address
City, State Zip
Country

TO:
Bristol Supply
42 Victoria Road
London, LND NW4 2RP
United Kingdom

UN 0012
Cartridges, small arms, 1.4S

Citation: IMDG Code § 5.1.2

Overpack Example



When overpacking one or more packages onto a pallet, secure the packages with either strapping or stretch wrap.

If the marks or labels can't be seen, e.g., when using black or other opaque stretch wrap, apply the following:

Marks:

1. OVERPACK (at least 12 mm/1/2" high)
2. UN number (at least 12 mm/1/2" high)
3. Proper shipping name
4. 1.4S mark

If transparent stretch wrap is used, and you can see the hazard communication at least once through the stretch wrap, then no action is required.

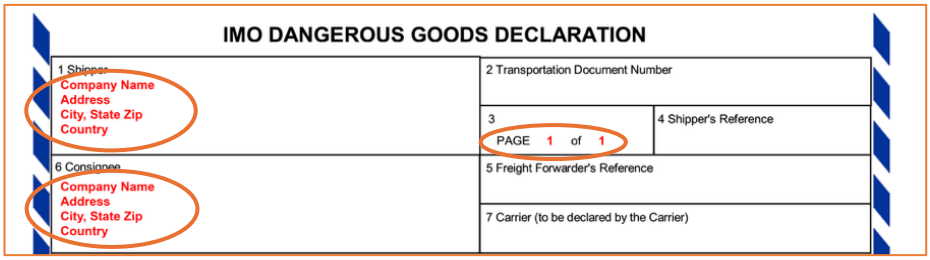
SHIPPING PAPER REQUIREMENTS

Each person who offers a dangerous good for transportation must describe the material on the shipping paper in the manner required under IMDG Code § 5.4. No particular shipping paper format is required.

Completing an IMO Dangerous Goods Declaration (IMO)

Shipper & Consignee Information

1. Enter the **SHIPPER** information
2. Enter the **CONSIGNEE** information
3. Enter the number of **PAGES**



Description of Goods
Dangerous Goods Identification

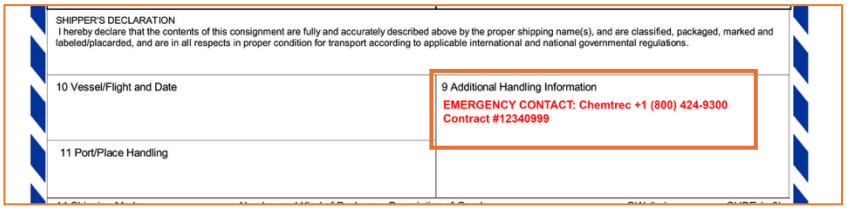
1. The shipping description is: "**UN 0012, Cartridges, small arms, 1.4S**" with no other information interspersed.
2. There is no packing group for this dangerous good.



Number and Kind of Packages

1. Write the QUANTITY, PACKAGING MATERIAL & TYPE, TOTAL QUANTITY, and UNITS before or after the shipping description. For Class 1, the quantity is the net explosive mass. Commonly understood packaging type abbreviations may be used, e.g., "bx" or "drm," but do not use packaging type codes here, e.g., "40 4G boxes." Metric units must be used, which for solids is lower case "kg", not "KG". In summation, this information may read "**40 plywood boxes, Total Net Qty: 514 kg, Total NEM 48 kg**". A degree of rounding is not specified, but may be to the nearest kilogram, and should be consistent between the DGD and the package and overpack markings. For ammunition, the net explosive mass (NEM) is the powder and primer mix; however the amount of primer mix is often only 1/100th of the powder and may be lost in the rounding.
2. For multiple products, each change to the dangerous goods identification must be on a different line, e.g. different net weight, but Sequence 1 does not have to be repeated if it is still valid.

Additional Handling Information & Authorization



1. The IMO Dangerous Goods Declaration must include an emergency response telephone number (including the area code and for telephone numbers for locations outside the US, the international access code or the "+" (plus) sign, country code and city code needed to complete the call from within the US) for use in the event of an incident involving the dangerous good(s). The number must be monitored at all times while the dangerous good is in transportation, including storage incident to transportation.
2. The name of the person signing the declaration is mandatory and must be entered on the declaration. If the Shipper's Declaration information is presented to the operator by means of EDP or EDI transmission techniques, the signature(s) may be electronic signature(s) or may be replaced by the name(s) (in capitals) of the person authorized to sign.

Citation: IMDG Code § 5.4

Completed IMO DGD

IMO DANGEROUS GOODS DECLARATION

1 Shipper **Company Name** **Address** **City, State Zip** **Country**	2 Transportation Document Number 3 PAGE 1 of 1 | 4 Shipper's Reference
6 Consignee **Company Name** **Address** **City, State Zip** **Country**	5 Freight Forwarder's Reference 7 Carrier (to be declared by the Carrier)

SHIPPER'S DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name(s), and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

10 Vessel/Flight and Date	9 Additional Handling Information **EMERGENCY CONTACT: Chemtrec +1 (800) 424-9300** **Contract #12340999**
11 Port/Place Handling	

14 Shipping Marks	Number and Kind of Packages, Description of Goods	GW (kg)	CUBE (m3)
	UN0012, CARTRIDGES, SMALL ARMS, 1.4S **40 plywood boxes, Total NEM 48 kg**	**514 kg**	

15 CTU ID No.	16 Seal No.	17 CTU Size and Type	18 Tare Mass (kg)	19 Total Gross Mass (kg)
			40 kg	**554 kg**

Container/Vehicle Packing Certificate **I hereby declare that the goods described above have been packed/loaded into the container/vehicle identified above in accordance with the applicable provisions.**	**21 Receiving Organization Receipt** **Received the above number of packages/containers/trailers in apparent good order and condition, unless stated hereon:** **RECEIVING ORGANIZATION REMARKS:**	
20 Name of Company	**Hauler's Name**	**22 Name of Company Preparing Note** **Company Name**
Name/Status of Declarant	**Vehicle Registration No.**	**Name/Status of Declarant** **Joe Shipper**
Place and Date	**Driver Name and Date**	**Place and Date** **City, State Country Date**
Signature of Declarant	**Driver's Signature**	**Signature of Declarant** Joe Shipper



PLACARDS

Placards are not required on cargo transport units carrying any quantity of explosives of division 1.4, compatibility group S.

Citation: IMDG Code § 5.3.1