

**DOCUMENT OF COMPLIANCE
 FOR THE CARRIAGE OF
 DANGEROUS GOODS**

Issued in pursuance of the requirement of regulation II-2/19.4 of the International Convention for Safety of Life at Sea, 1974, as amended under the authority of the Government of

THE REPUBLIC OF PANAMA

by **DNV GL**

Particulars of Ship

Name of Ship:	ONYX 1
Distinctive Number or Letters:	HPFP
Port of Registry:	PANAMA
Type of Ship:	Container ship
Date on which keel was laid	2003-09-05
IMO Number:	9270804

This is to certify:

1. That the construction and equipment of the above mentioned ship was found to comply with the provisions of regulation II-2/19.3 as applicable according to II-2/1.2.4 of the International Convention for the Safety of Life at Sea, 1974, as amended.
2. That the ship is suitable for the carriage of those classes of dangerous goods specified in the appendix hereto, subject to any provisions in the IMDG Code for individual substances, materials or articles also being complied with.

This document is valid until **2019-07-31**.

Issued at **Hong Kong, China** on **2017-09-10**



for **DNV GL**

(Signature)
Man Hing Simon Chu
 Surveyor

There are no special requirements in the above-mentioned regulation II-2/19 for the carriage of dangerous goods of classes 6.2 and 7, and for the carriage of dangerous goods in limited quantities, as required in chapter 3.4 of the IMDG Code, and excepted quantities, as required in chapter 3.5 of the IMDG Code.



Endorsement where the renewal survey has been completed and regulation I/14(d) applies

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with regulation I/14(d) of the Convention, be accepted as valid until

Place: _____ Date: _____

Signature: _____

Stamp _____ Surveyor, DNV GL

Endorsement to extend the validity of the Certificate until reaching the port of survey or for a period of grace where regulation I/14(e) or I/14(f) applies

This Certificate shall, in accordance with

regulation I/14(e)

regulation I/14(f)

of the Convention, be accepted as valid until

Place: _____ Date: _____

Signature: _____

Stamp _____ Surveyor, DNV GL

Endorsement for advancement of anniversary date where regulation I/14(h) applies

In accordance with regulation I/14(h) of the Convention, the new anniversary date is _____

Place: _____ Date: _____

Signature: _____

Stamp _____ Surveyor, DNV GL

In accordance with regulation I/14(h) of the Convention, the new anniversary date is _____

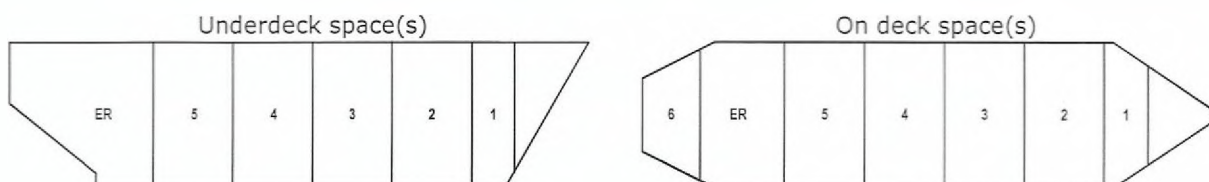
Place: _____ Date: _____

Signature: _____

Stamp _____ Surveyor, DNV GL

Sketch of the vessel

Cargo spaces indicated in the sketch are corresponding with the table(s) hereafter

**Packaged goods**

Class	Underdeck space(s)					On deck space(s)		
	1	2	3, 4	5		ER ¹⁾	1 to 5	6
1.1 to 1.6	P ^{1) 2)}	X	X	X		X	P	X
1.4S	P	P	P	P		P	P	P
2.1 hydrogen and hydrogen mixtures exclusively	P ³⁾	X	X	X		X	P	P
2.1 other than hydrogen and hydrogen mixtures	P ³⁾	X	X	X		X	P	P
2.2	P	P	P	P		X	P	P
2.3 flammable	X	X	X	X		X	P	P
2.3 non-flammable	X	X	X	X		X	P	P
3 FP < 23°C	P ³⁾	X	X	X		X	P	P
3 23°C ≤ FP ≤ 60°C	P	P	P	P		X	P	P
4.1	P	P	P ⁴⁾	P ⁴⁾		X	P	P
4.2	P	P	P ⁴⁾	P ⁴⁾		X	P	P
4.3 liquids	P ⁵⁾	P ⁶⁾	X	X		X	P	P
4.3 solids	P	P	C	C		X	P	P
5.1	P	P	P ⁴⁾	P ⁴⁾		P ²⁾	P	P
5.2	X	X	X	X		X	P	P
6.1 liquids FP < 23°C	P ³⁾	X	X	X		X	P	P
6.1 liquids 23°C ≤ FP ≤ 60°C	P	X	X	X		X	P	P
6.1 liquids FP > 60°C	P	X	X	X		P	P	P
6.1 solids	P	P	P ⁶⁾	P ⁶⁾		P	P	P
8 liquids FP < 23°C	P ³⁾	X	X	X		X	P	P
8 liquids 23°C ≤ FP ≤ 60°C	P	P ⁷⁾	X	X		X	P	P
8 liquids FP > 60°C	P	P ⁷⁾	P ⁷⁾	P ⁷⁾		P	P	P
8 solids	P	P	P	P		P	P	P
9 goods evolving flammable vapour exclusively	P ³⁾	X	X	X		P	P	P
9 other than goods evolving flammable vapour	P	P	P ⁶⁾	P ⁶⁾		P	P	P

P Indicates PACKAGED GOODS PERMITTED**C** Indicates IN CLOSED FREIGHT CONTAINERS OR PORTABLE TANKS PERMITTED**X** Indicates NOT PERMITTED

Remarks:

Underdeck space(s):

- 1) The following electrical equipment in the cargo space(s) is to be isolated from the electrical supply and to be secured against unintentional reconnection (refer to the List of Equipment): floodlight(s), ventilation fans
- 2) The simultaneous carriage of goods requiring mechanical ventilation is not permitted.
- 3) The following electrical equipment in the cargo space(s) is to be isolated from the electrical supply and to be secured against unintentional reconnection (refer to the List of Equipment): floodlight(s)
- 4) If stowage in a "mechanically ventilated space" is stipulated by the IMDG Code, in closed freight containers.
- 5) Except goods having a flashpoint less than 23°C listed in the IMDG Code.
- 6) Except goods for which stowage in a "mechanically ventilated space" is stipulated by the IMDG Code.
- 7) Except goods having a subsidiary risk class 6.1.

On deck space(s):

- 1) Stowage applicable between frame no. 16 and 36.
- 2) Except goods for which stowage "protected from sources of heat" is stipulated by the IMDG Code.

Solid bulk cargoes

Bulk cargo shipping name	Class	Underdeck space(s)					
ALUMINIUM FERROSILICON POWDER UN 1395	4.3						
ALUMINIUM NITRATE UN 1438	5.1						
ALUMINIUM SILICON POWDER, UNCOATED UN 1398	4.3						
ALUMINIUM SMELTING BY-PRODUCTS or REMELTING BY-PRODUCTS UN 3170	4.3						
AMMONIUM NITRATE BASED FERTILIZER UN 2067	5.1						
AMMONIUM NITRATE BASED FERTILIZER UN 2071	9						
AMMONIUM NITRATE UN 1942	5.1						
BARIUM NITRATE UN 1446	5.1						
CALCIUM NITRATE UN 1454	5.1						
CASTOR BEANS UN 2969	9						
COPRA (dry) UN 1363	4.2						
FERROSILICON UN 1408	4.3						
FERROUS METAL BORING, SHAVINGS, TURNINGS or CUTTINGS UN 2793	4.2						
FISHMEAL (FISHSCRAP), STABILIZED UN 2216	9						
IRON OXIDE, SPENT or IRON SPONGE, SPENT UN 1376	4.2						
LEAD NITRATE UN 1469	5.1						
MAGNESIUM NITRATE UN 1474	5.1						
POTASSIUM NITRATE UN 1486	5.1						
SEED CAKE UN 2217	4.2						
SEED CAKE, containing vegetable oil UN 1386 (a)	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) mechanically expelled seeds	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) solvent extracted seeds	4.2						
SODIUM NITRATE UN 1498	5.1						
SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE UN 1499	5.1						
SULPHUR UN 1350	4.1						
ZINC ASHES UN 1435	4.3						

B Indicates SOLID BULK CARGOES PERMITTED**X** Indicates NOT PERMITTED

Remarks:

None.

List of equipment

According to the provisions of regulation 19.3 as applicable according to II-2/1.2.4

Para.	Requirement	Equipment provided
1.1	Compliance with reg. 10.7.2	Hold 1 to 5: Fixed CO2 system
3.1.1	Immediate supply of water	Remote start of the main fire pumps from the navigation bridge
3.1.2	Quantity of water and arrangement of hydrants	Provided
3.1.3	Water cooling	Hold 1: Fixed water-spraying system of 5 l/min per m²
3.1.4	Cargo hold flooding	Not provided
3.2	Sources of ignition	Explosion protection of electrical equipment in Hold 1: at least IIC T5, IP65 Hold 2 to 5: all electrical equipment non-ex.-proof Electrical equipment is capable of being isolated in Hold 1: floodlight(s) IIB T2, IP56 Hold 1: ventilation fans IIC T5, IP56
3.3	Detection system	Hold 1 to 5: Sample extraction smoke detection and alarm system
3.4.1	Mechanical ventilation	Hold 1, 2: Six air changes/h (Exhaust from upper and lower part) Hold 3 to 5: Mechanical ventilation; not specified (Ducting not in acc. with the Rules)
3.4.2.1	Safety of fans	Hold 1: Provided
3.4.2.2	Wire mesh guards	Hold 1: Provided
3.4.3	Natural ventilation	Not applicable
3.5	Bilge pumping	Hold 1: Additional bilge system, isolating valve with locking device and warning signs
3.6.1	Full protective clothing	Four sets
3.6.2	Additional self-contained breathing apparatuses	Two sets in addition to fire-fighter's outfits
3.7	Portable fire extinguishers	Additional total of 12 kg dry powder
3.8	Insulation of machinery space boundaries	On deck space between frame no. 16 and 36: Located above engine room (deck(s) not insulated)
3.9	Water spraying system	Not applicable
3.10	Separation of ro-ro spaces	Not applicable