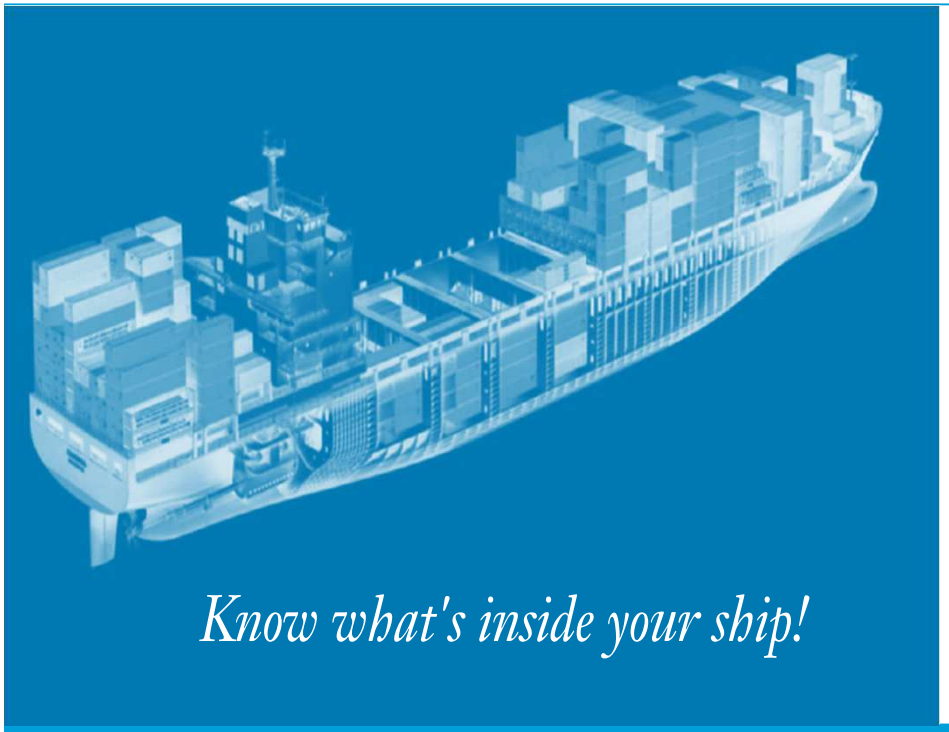
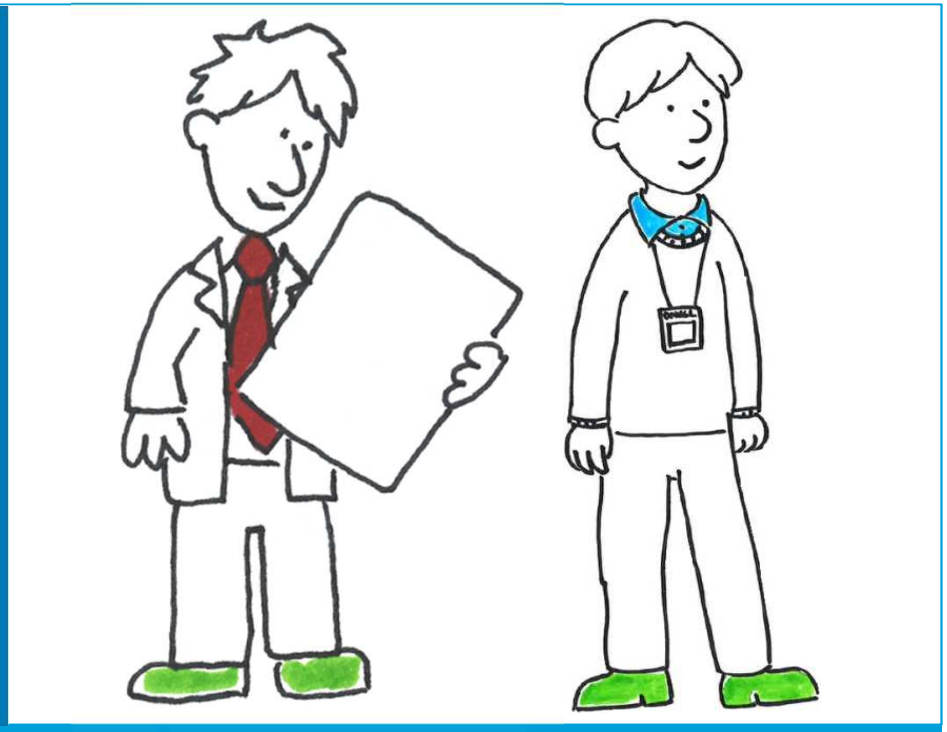




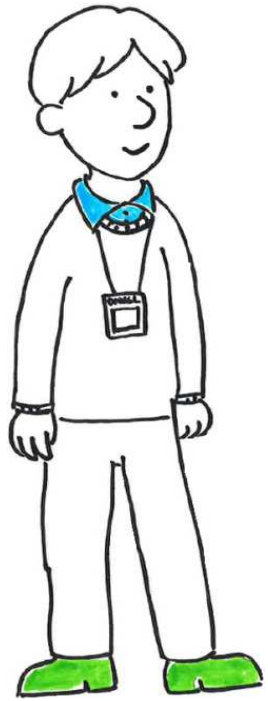
MCADE675 – SHIP RECYCLING

SDoC & MD Preparation Instruction

General introduction of the three MD forms

This presentation is an instruction to guide suppliers and shipyards how to fill in the Supplier Declaration of Conformity (SDoC) and Material Declaration (MD).

There are three different MD forms with respect to the below legislation and its revisions accordingly, suppliers should seek ship builders for selection of the correct MD form to fill for submission.

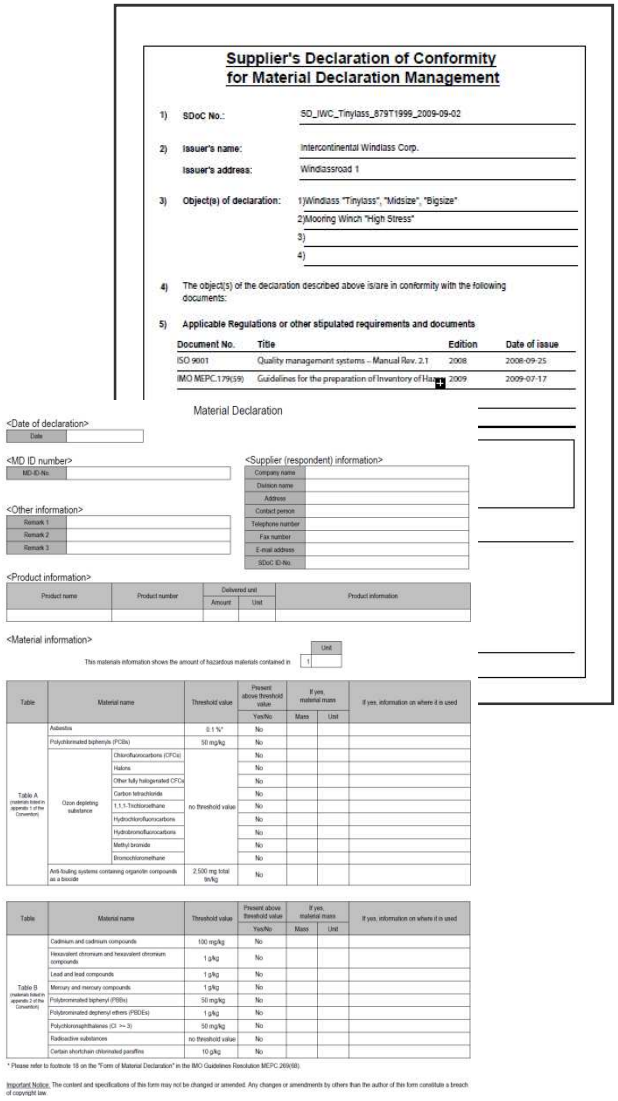


- **IMO standard:** MD form of MEPC.197(62) published in 2011 under IMO Hong Kong Convention (HKC), (only applicable for ongoing projects);
- **IMO standard:** MD form of MEPC.269(68) published in 2015 under IMO Hong Kong Convention, it is the updated version of above one in the field of hazmats threshold value;
- **EU standard**: MD form of Regulation EU No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling (EU SRR), there are two more hazmats (PFOS) & HBCDD) for declaration in comparison with above MDs.

The forms are available under: www.hazmat-recycling

SDoC and MD preparation

- SDoC is a legal statement to confirm information stated in MD;
- MD contains information of HazMats in the supplied products;
- Both SDoC & MD filled out by the supplier as an pdf form are submitted to shipyard;
- The shipyard or supplier should prepare the SDoCs and MDs electronic format for uploading into DNVGL IHM Green Server (IGS) preparation system.



Supplier's Declaration of Conformity for Material Declaration Management

1) SDoC No.: SD_IWC_Tinylass_879T1999_2009-09-02

2) Issuer's name: Intercontinental Windlass Corp.
Issuer's address: Windlassroad 1

3) Object(s) of declaration: 1)Windlass "Tinylass", "Midsize", "Bigsize"
2)Mooring Winch "High Stress"
3)
4)

4) The object(s) of the declaration described above is/are in conformity with the following documents:

5) Applicable Regulations or other stipulated requirements and documents

Document No.	Title	Edition	Date of issue
ISO 9001	Quality management systems - Manual Rev. 2.1	2008	2008-09-25
IMO MEPC.179(59)	Guidelines for the preparation of Inventory of Ha	2009	2009-07-17

Material Declaration

<Date of declaration>
Date

<MD ID number>
MD-ID-No.

<Supplier (respondent) information>
Company name
Division name
Address
Contact person
Telephone number
Fax number
E-mail address
SDoC ID-No.

<Other information>
Remark 1
Remark 2
Remark 3

<Product information>

Product name	Product number	Delivered unit		Product information
		Amount	Unit	

<Material information>
Unit
This materials information shows the amount of hazardous materials contained in 1

Table	Material name		Threshold value	Present above threshold value	If yes, material mass		If yes, information on where it is used
				Yes/No	Mass	Unit	
Table A (materials listed in appendix 1 of the Convention)	Asbestos		0.1 %*	No			
	Polychlorinated biphenyls (PCBs)		50 mg/kg	No			
	Ozon depleting substance	Chlorofluorocarbons (CFCs)	no threshold value	No			
		Halons		No			
		Other fully halogenated CFCs		No			
		Carbon tetrachloride		No			
		1,1,1-Trichloroethane		No			
		Hydrochlorofluorocarbons		No			
		Hydrobromofluorocarbons		No			
		Methyl bromide		No			
		Bromochloromethane		No			
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No			

Table	Material name	Threshold value	Present above threshold value	If yes, material mass		If yes, information on where it is used
			Yes/No	Mass	Unit	
Table B (materials listed in appendix 2 of the Convention)	Cadmium and cadmium compounds	100 mg/kg	No			
	Hexavalent chromium and hexavalent chromium compounds	1 g/kg	No			
	Lead and lead compounds	1 g/kg	No			
	Mercury and mercury compounds	1 g/kg	No			
	Polybrominated biphenyl (PBBs)	50 mg/kg	No			
	Polybrominated diphenyl ethers (PBDEs)	1 g/kg	No			
	Polychloronaphthalenes (Cl >= 3)	50 mg/kg	No			
	Radioactive substances	no threshold value	No			
	Certain shortchain chlorinated paraffins	10 g/kg	No			

* Please refer to footnote 18 on the "Form of Material Declaration" in the IMO Guidelines Resolution MEPC.269(68).

Important Notice: The content and specifications of this form may not be changed or amended. Any changes or amendments by others than the author of this form constitute a breach of copyright law.

SDoC requirements for suppliers

Suppliers and shipyards shall establish, implement and maintain procedures to:

- Prepare a SDoC for products supplied by them;
- Provide SDoC efficiently to requesting customers;
- Ensure that required information is provided in the SDoC;
- Create an unique ID-number for identification of SDoC and referencing it in MD;
- Ensure that the SDoC is signed by a representative;
- Ensure that all information and forms required are available, maintained and provided electronically.
- Provide at least one SDoC for your product portfolio

How to complete a SDoC file

The first part contains information about the supplier

Supplier's Declaration of Conformity for Material Declaration Management

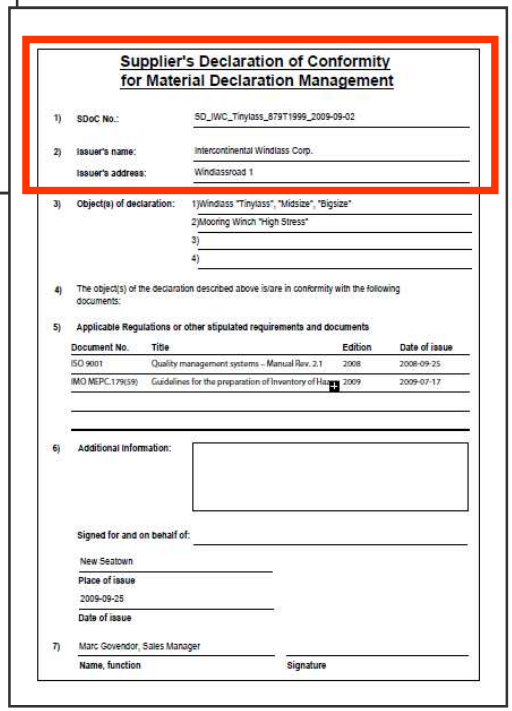
1) **SDoC No.:** SD_IWC_Tinylass_879T1999_2009-09-02

2) **Issuer's name:** Intercontinental Windlass Corp.

Issuer's address: Windlassroad 1

1.

2.



1. Fill in an unique SDoC no for identification with reference to the related MD

2. Fill in the company name and complete address of the issuer

(The company name needs to match with company name of the MD)

DNV·GL

How to complete a SDoC file

The second part contains information about the <u>product</u>

3)	**Object(s) of declaration:**	1)Windlass "Tinylass", "Midsize", "Bigsize" 2)Mooring Winch "High Stress" 3) 4)
4)	The object(s) of the declaration described above is/are in conformity with the following documents:	

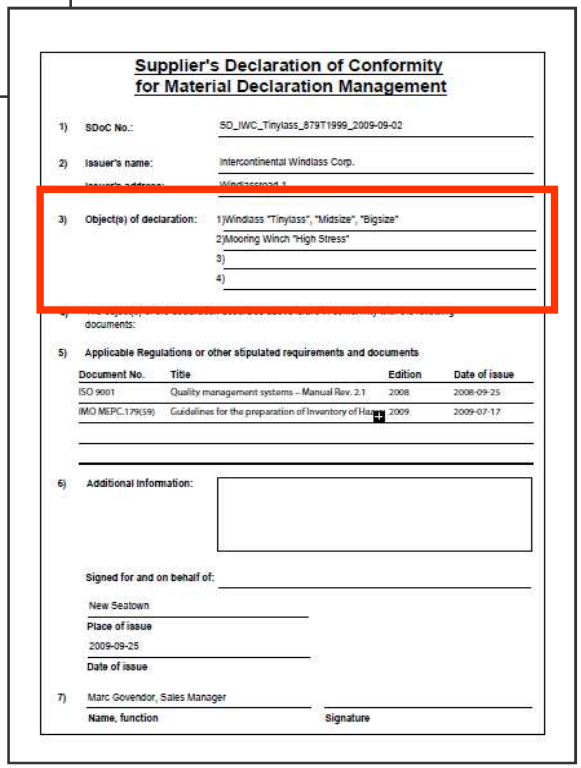
3.

4.

3. Specify which products are covered by the SDoC

(The SDoC can cover one product, a range of products, a complete delivery or all products of the supplier.)

4. Standard text, no additional entry is required!



Supplier's Declaration of Conformity for Material Declaration Management

1) SDoC No.: SD_IWC_Tinylass_879T1999_2009-09-02

2) Issuer's name: Intercontinental Windlass Corp.

3) Object(s) of declaration: 1)Windlass "Tinylass", "Midsize", "Bigsize"
2)Mooring Winch "High Stress"
3)
4)

documents:

5) Applicable Regulations or other stipulated requirements and documents

Document No.	Title	Edition	Date of issue
ISO 9001	Quality management systems – Manual Rev. 2.1	2008	2008-09-25
IMO MEPC.179(59)	Guidelines for the preparation of Inventory of Ha	2009	2009-07-17

6) Additional information:

Signed for and on behalf of:

New Seatown
Place of issue

2009-09-25
Date of issue

7) Marc Govendor, Sales Manager
Name, function

Signature

DNV·GL

How to complete a SDoC file

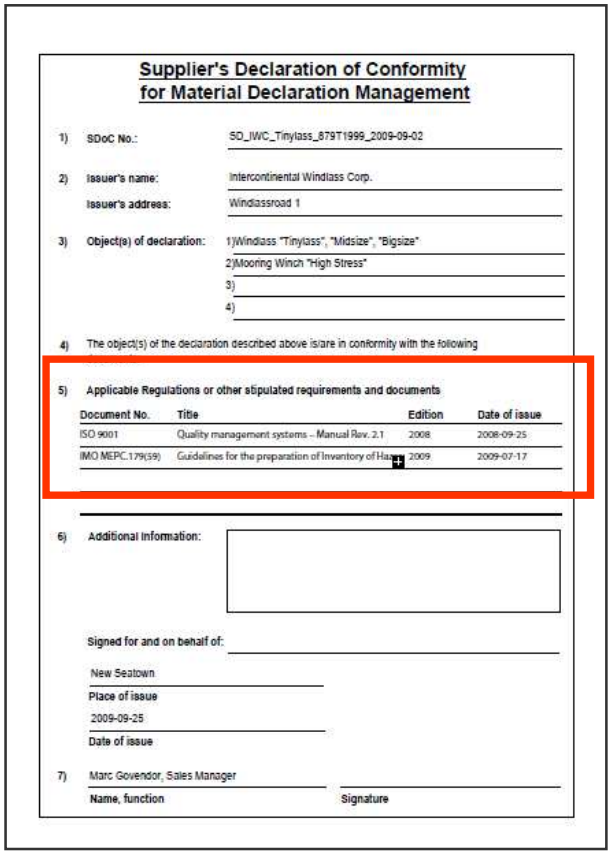
The third part contains information about related rules

5) Applicable Regulations or other stipulated requirements and documents

Document No.	Title	Edition	Date of issue
QM-03	Quality Management manual	3rd	2015-02-12
MEPC269(68)	IHM Guidelines	2015	2015-05-15

5.

5. Fill in the titles of the related legal and organizational documents, e.g. national regulations, ISO standards, IMO conventions, etc.



Supplier's Declaration of Conformity for Material Declaration Management

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Issuer's address: Windlassroad 1

3) Object(s) of declaration: 1)Windlass "Tinylass", "Midsize", "Bigsize"
2)Mooring Winch "High Stress"
3)
4)

4) The object(s) of the declaration described above is/are in conformity with the following

5) Applicable Regulations or other stipulated requirements and documents

Document No.	Title	Edition	Date of issue
ISO 9001	Quality management systems - Manual Rev. 2.1	2008	2008-09-25
IMO MEPC.179(59)	Guidelines for the preparation of Inventory of Ha	2009	2009-07-17

6) Additional information:

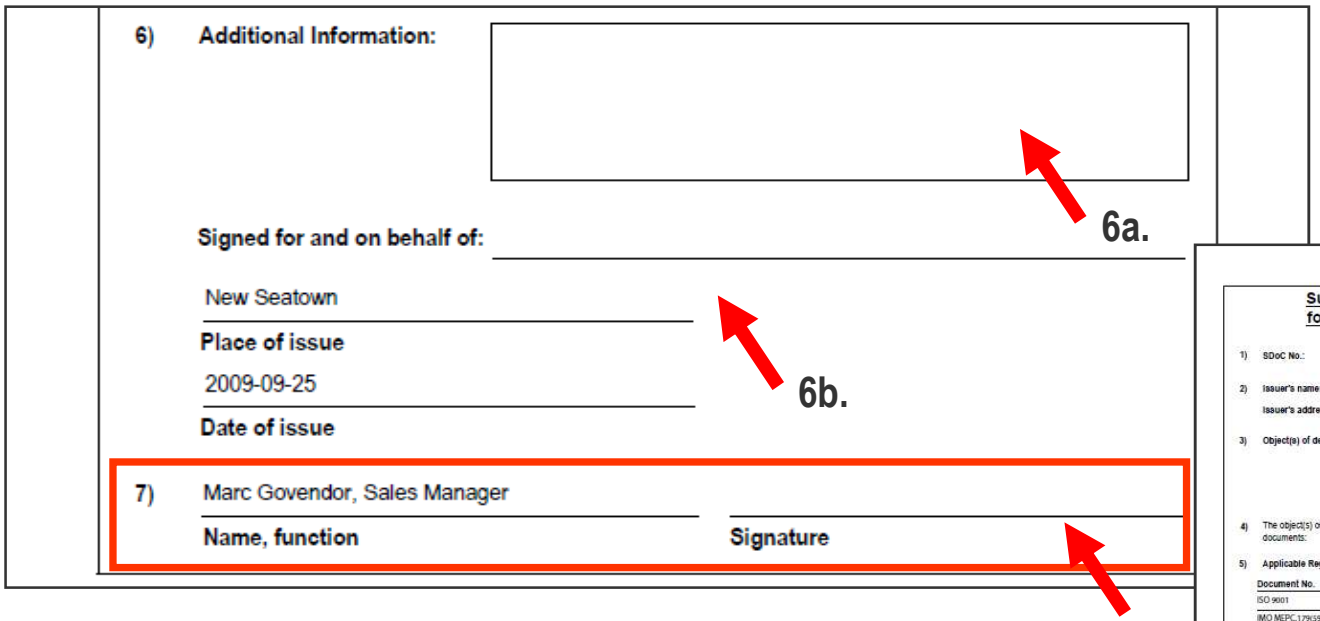
Signed for and on behalf of:

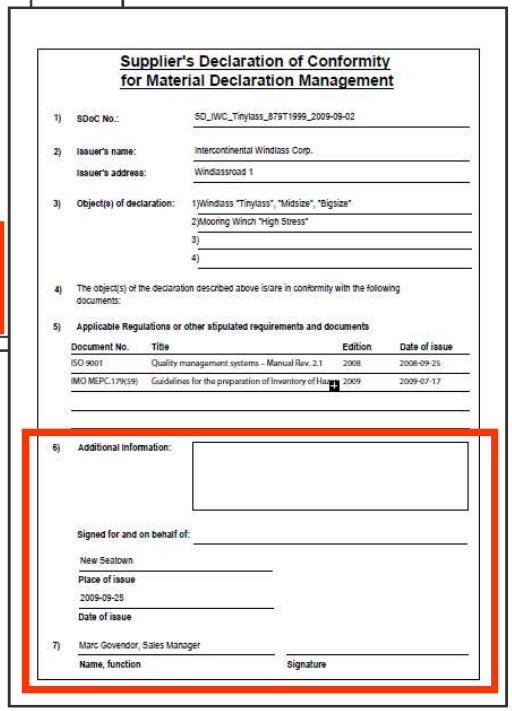
New Seatown
Place of issue
2009-09-25
Date of issue

7) Marc Govendor, Sales Manager
Name, function
Signature

How to complete a SDoC file

The fourth part contains information about the Issuer





7.

6a. Fill in additional information to the Product (e.g. a certain range of serial numbers of the components, etc.)

6b. Fill in name of person in charge of filling out SDoC and place and date of issue

7. Fill in name and function and signature of responsible person
(in typed letters and handwriting/electronical)

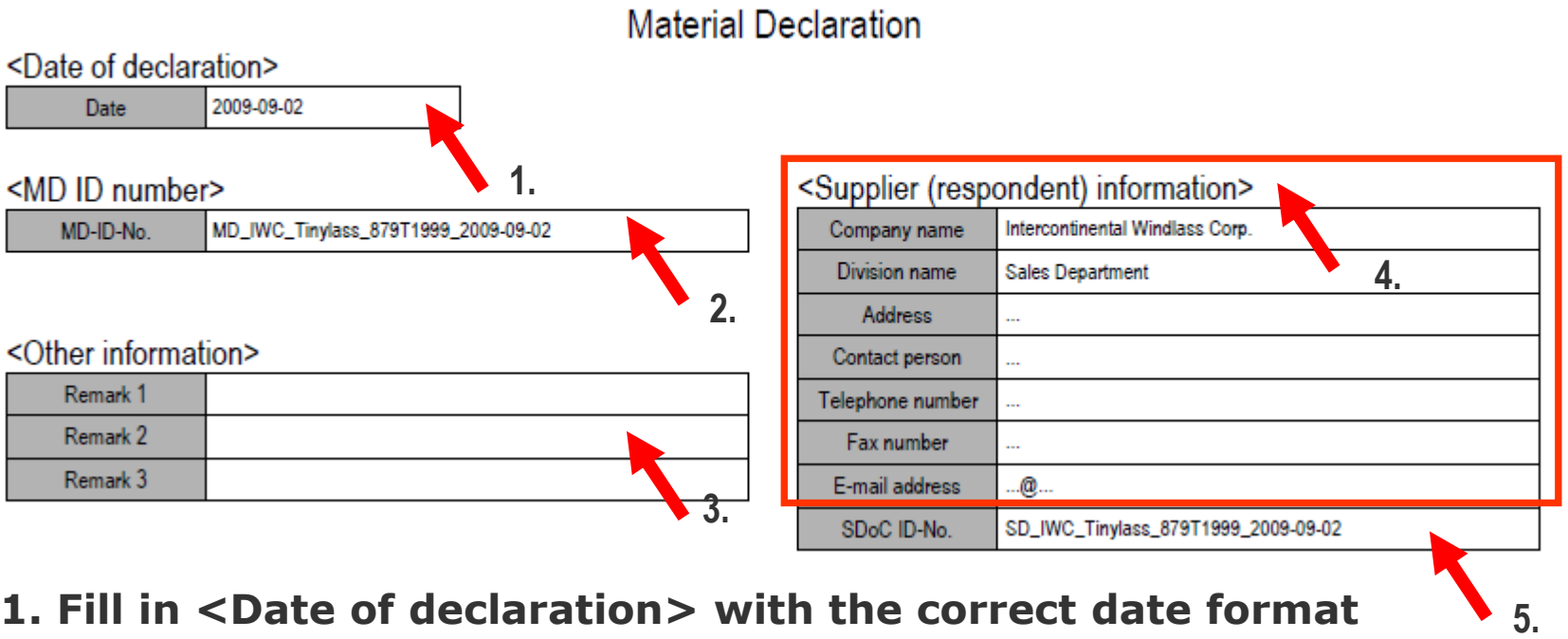
MD requirements for suppliers

Suppliers and shipyards shall establish, implement and maintain procedures to:

- Provide for all products supplied a statement on presence/absence of hazardous materials (HazMats)
- Providing accurate and up to date information on presence of hazardous materials;
- Identify supply chain and require sub-MDs as basis for preparation of own MDs;
- Ensure that up to date information is supplied by their supply chain;
- Identify missing information and establish a follow up process;
- Assure that each homogenous material is evaluated and/or analysed;
- Provide an unique ID-number for identification of MD;
- Ensure the related SDoC is identified in the MD;
- Ensure that all information is available, maintained and provided electronically.

How to complete a MD file

The first part contains general information



1. Fill in <Date of declaration> with the correct date format
2. Fill in unique <MD ID number> for each declared item
3. Fill in <Other information> relevant to the MD if applicable
4. Fill in <Supplier (respondent) information> about the manufacturer
5. Fill in <SDoC ID-No> of the related SDoC for the MD

How to complete a MD file

The second part contains <u>product</u> related information

<Product information>

Product name	Product number	Delivered unit		Product information
		Amount	Unit	
Tinylass	879T1999	2	piece	Pull 30 to 200 kN

<Material information>

This materials information shows the amount of hazardous materials contained in

	Unit
1	piece

1. 2. 3. 4. 5. 6.

1. Fill in the product name
2. Fill in the product number of the product
3. Fill in how many units or mass or quantity has been delivered
4. Choose the unit for the product, e.g. <u>piece</u> for components
5. Fill in additional information as serial number range, etc.
6. Choose the unit for the HazMat, e.g. kg for paints or piece for components

How to complete a MD file

The third part contains information about the HazMats of Table A

Table	Material name		Threshold level	Present above threshold level	If yes, material mass		If yes, information on where it is used
				Yes/No	Mass	Unit	
Table A (materials listed in appendix 1 of the Convention)	Asbestos		no threshold level	Yes	20	kg	brake band
	Polychlorinated biphenyls (PCBs)		no threshold level	No			
	Ozon depleting substance	Chlorofluorocarbons (CFCs)	no threshold level	No			
		Halons		No			
		Other fully halogenated CFCs		No			
		Carbon tetrachloride		No			
		1,1,1-Trichloroethane		No			
		Hydrochlorofluorocarbons		No			
		Hydrobromofluorocarbons		No			
		Methyl bromide		No			
		Bromochloromethane		No			
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No			

1. Choose whether or not HazMat is contained (“yes” or “no”)
2. Fill in the amount, mass or quantity of the HazMat Material
3. Choose the unit for the HazMat
4. Fill in where the product is used in the component

How to complete a MD file

The third part contains information about the HazMats of Table B

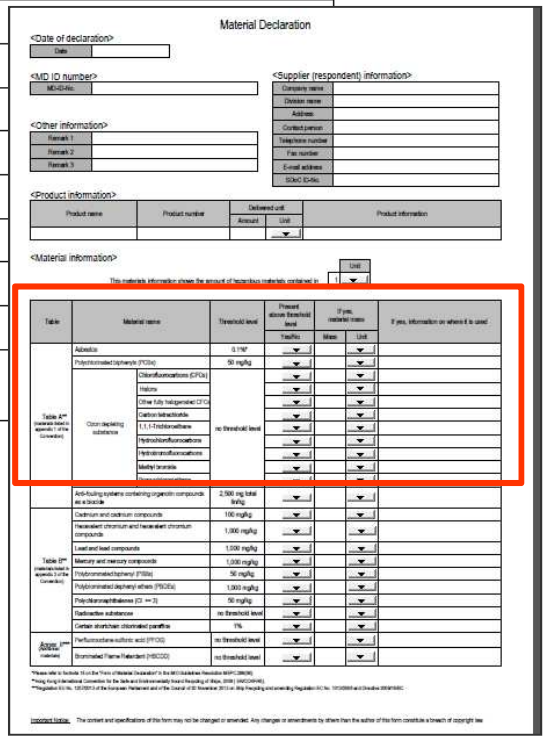
Table	Material name	Threshold level	Present above threshold level	If yes, material mass		If yes, information on where it is used
			Yes/No	Mass	Unit	
Table B (materials listed in appendix 2 of the Convention)	Cadmium and cadmium compounds	100 mg/kg	No	1	g	El. board in Control Units
	Hexavalent chromium and hexavalent chromium compounds	1 g/kg	No	5	g	E-Motor Shaft surface
	Lead and lead compounds	1 g/kg	Yes	20	kg	windlass coating outside, 150g/kg
	Mercury and mercury compounds	1 g/kg	No			
	Polybrominated biphenyl (PBBs)	1 g/kg	No			
	Polybrominated dephenyl ethers (PBDEs)	1 g/kg	No			
	Polychloronaphthalenes (Cl >= 3)	no threshold level	No			
	Radioactive substances	no threshold level	No			
	Certain shortchain chlorinated paraffins	10 g/kg	No			

Has to be filled out in the same way as Table A !!!

Demonstration of EU SRR MD form

The Table A materials apply to IMO and EU SRR standard

Table	Material name		Threshold level	Present above threshold level	If yes, material mass		If yes, information on where it is used
				Yes/No	Mass	Unit	
Table A** (materials listed in appendix 1 of the Convention)	Asbestos		0.1%*	No			
	Polychlorinated biphenyls (PCBs)		50 mg/kg	No			
	Ozon depleting substance	Chlorofluorocarbons (CFCs)	no threshold level	No			
		Halons		No			
		Other fully halogenated CFCs		No			
		Carbon tetrachloride		No			
		1,1,1-Trichloroethane		No			
		Hydrochlorofluorocarbons		No			
		Hydrobromofluorocarbons		No			
		Methyl bromide		No			
		Bromochloromethane		No			
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No			



Demonstration of EU SRR MD form

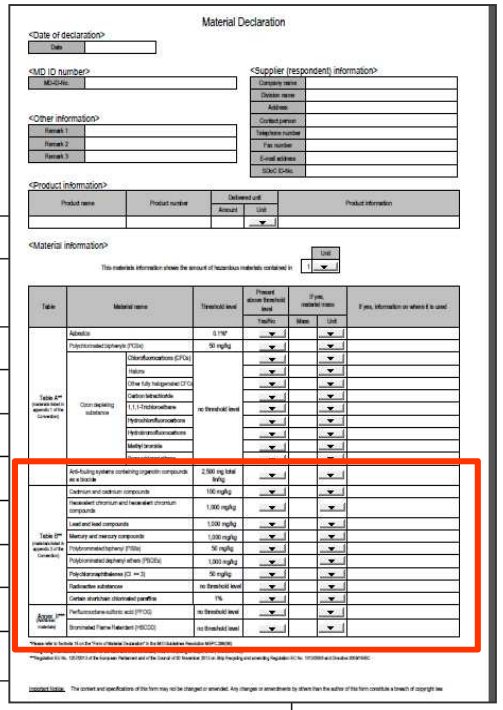
The Table B materials apply to IMO and EU SRR IHM standard

- The EU SRR Annex II additional materials are PFOS and HBCDD with no threshold level
- The three options “Yes”,” No”,” NA” for Annex II materials. NA means not applicable if IMO standard is only required.

Table B** (materials listed in appendix 2 of the Convention)	Cadmium and cadmium compounds	100 mg/kg	No		
	Hexavalent chromium and hexavalent chromium compounds	1,000 mg/kg	No		
	Lead and lead compounds	1,000 mg/kg	No		
	Mercury and mercury compounds	1,000 mg/kg	No		
	Polybrominated biphenyl (PBBs)	50 mg/kg	No		
	Polybrominated dephenyl ethers (PBDEs)	1,000 mg/kg	No		
	Polychloronaphthalenes (Cl >= 3)	50 mg/kg	No		
	Radioactive substances	no threshold level	No		
	Certain shortchain chlorinated paraffins	1%	No		
Annex II*** (Additional materials)	Perfluorooctane sulfonic acid (PFOS)	no threshold level	No		
	Brominated Flame Retardant (HBCDD)	no threshold level	No		

Yes
No
NA

*Please refer to footnote 18 on the "Form of Material Declaration" in the IMO Guidelines Resolution MEPC.269(68).
**Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (SR/CONF/45).
***Regulation EU No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and ame n EC No. 1013/2006 and Directive 2009/16/EC



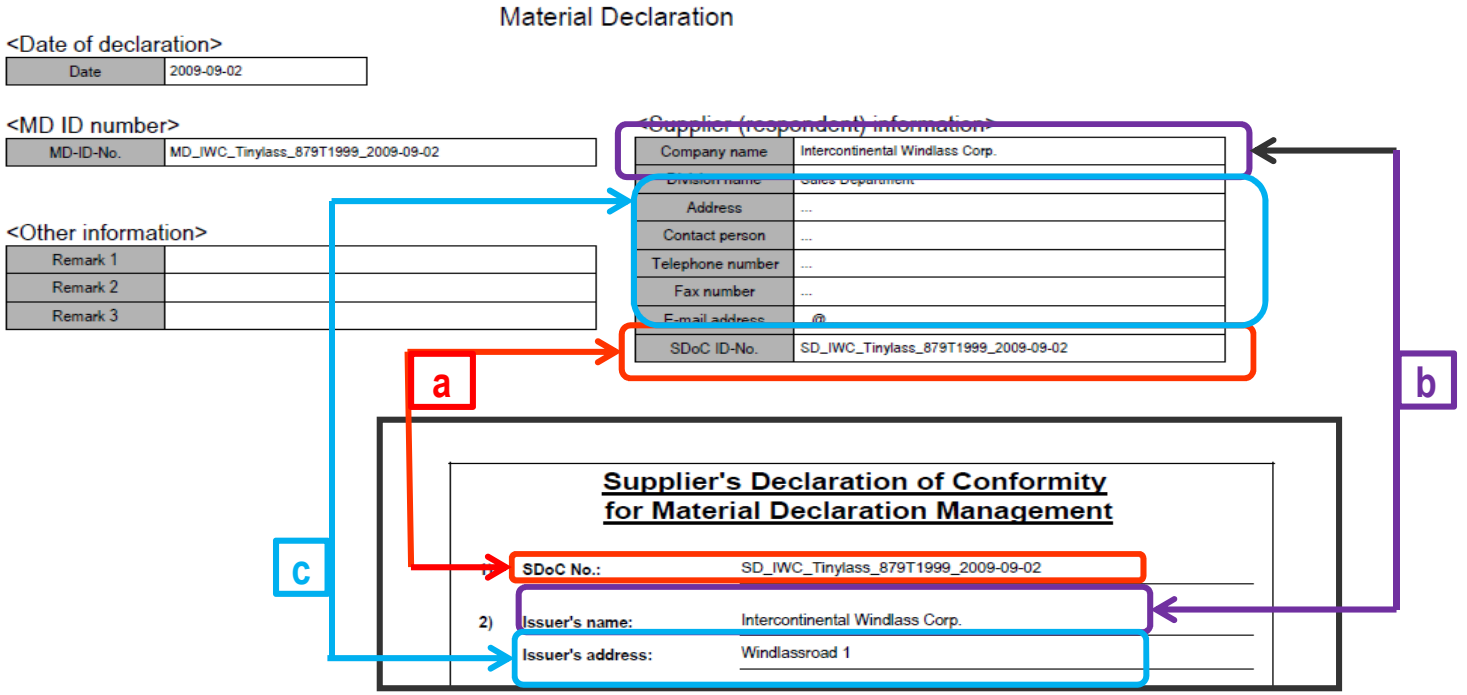
Take into account …

Since the existence of content relevance among MD and its SDoC for electronic identification by IGS , the advice is to use "copy" function to transfer below info from one form to the other to avoid typing errors during electronic MD/SDoC electronic forms preparation.

a "SDoC ID-No." in MD form and its SDoC form should be the same;

b "Company name" in MD & "Issuer's name" in SDoC should be the same;

c "Address" in MD and the "Issuer's name" in SDoC form should be the same



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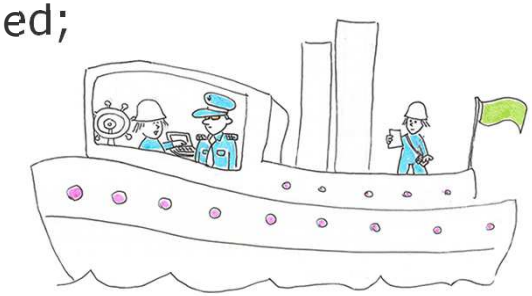
Take into account …

- To choose the Unit for the HazMat carefully
  - e.g. "piece" for components / "kg, m^{3}" for paints / "kg, m" for cable
  - recognize paints cannot have the unit "piece"
- To choose the overall mass for products which can not be separated mechanically instead of only the HazMat mass
  - e.g. paints, concrete, insulation, gaskets, etc.
- Not to forget to fill in where the product is used in the component or on the vessel that MDs and SDoCs have to be prepared also when no hazmat are contained above the related threshold levels
- ISO 30005 standard offers an unique numbering system for MDs and SDoCs
  - SD_Manufacturer_Productname_Producttype_date(20110331)
  - MD_Manufacturer_Productname_Producttype_date(20110331)

Accomplish the IHM preparation process

Submit the filled in MDs and SDoCs files to the shipyard

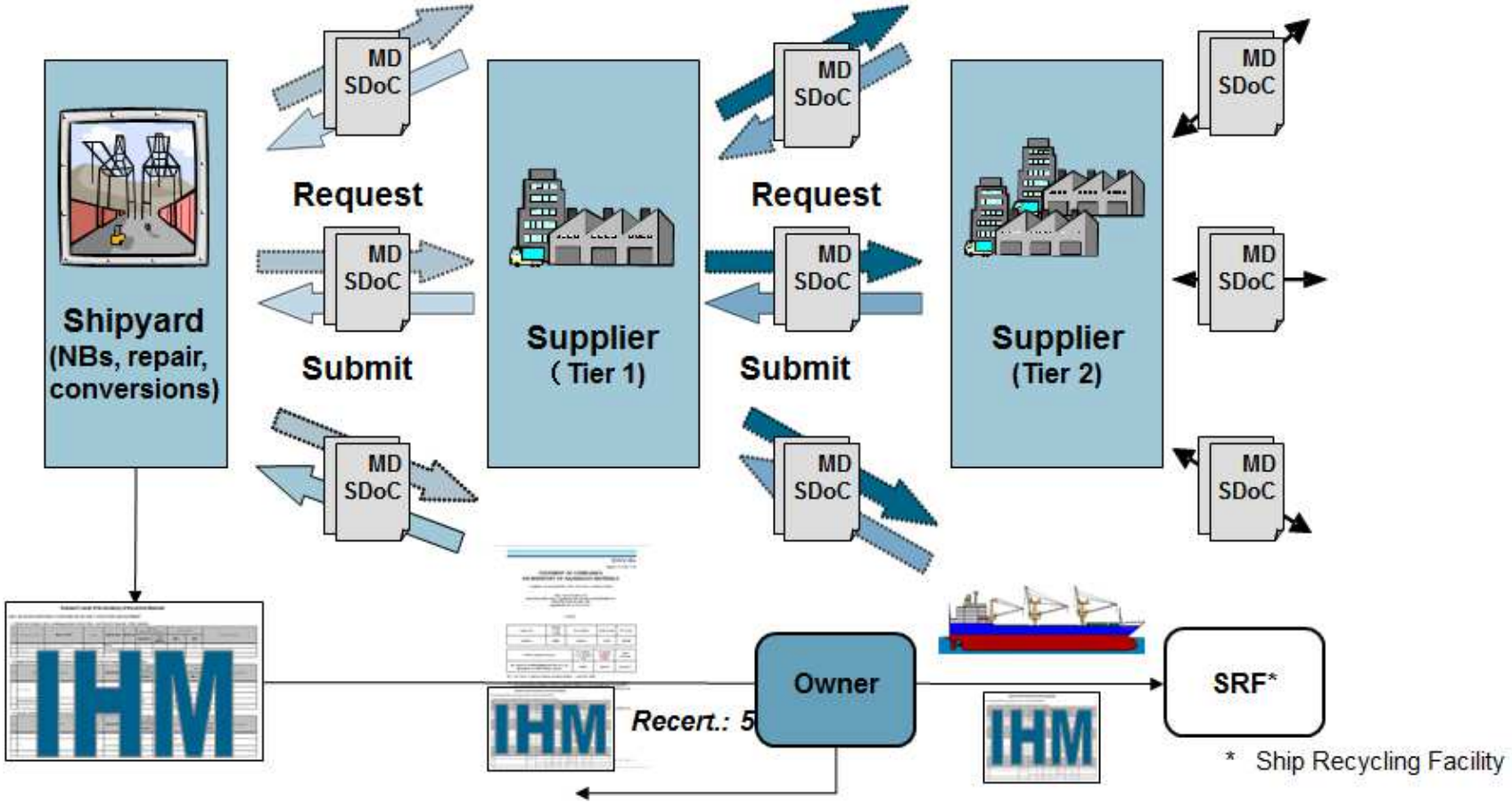
- Select the correct standard pdf files for preparing of MD and SDoC;
- Prepare additional signed hardcopy of SDoC for shipyard;
- Submit only electronically generated MD and SDoC files;
- Or use electronically signature system if available;
- Recognize the supplier is liable for the information provided;
- Do not forget to fill in the unit column correctly;
- Recognize paints cannot have the unit "piece";



Shipyard prepares IHM on basis of suppliers information;

- All MDs/ SDoCs should be finally converted into the electronic forms for uploading into IGS for processing;
- The signed version MDs/SDoCs should be archived by shipyard.

Work process overview for SDoC and MD collection



Thank you for your kind attention!

Global Practice Ship Recycling

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Phone: +49 40 36 149 3733

•www.dnvgl.com

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