



## MARITIME

# SETTING THE COURSE FOR A SUSTAINABLE FUTURE

## Inventory of Hazardous Materials for New Ships

### A host of new requirements

The European Union Ship Recycling Regulation (EU SRR) and the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships (HKC) place responsibility on shipowners, shipbuilders, suppliers, recycling facilities and national authorities to ensure the safe and environmentally viable management of HazMats as well as the sustainable recycling of ships.

A fundamental requirement of these regulations is the documentation of hazardous materials onboard ships. New and existing ships of 500 GT and above will have to carry an Inventory of Hazardous Materials (IHM) and the related International Certificate of Inventory of Hazardous Materials (ICIHM) onboard

once the EU SRR is applied. This means that approximately 20,000 ships that are visiting EU ports and anchorages will have to obtain the ICIHM until 31 December 2020 and all new ships should be equipped with an ICIHM after 31 December 2018 according to EU SRR. In total 60,000 ships will have to obtain an ICIHM 5 years after the entry into force of the HKC.

### Smooth IHM preparation with DNV GL

To ensure smooth certification, we offer expert solutions for drawing up your IHM. Our experience allows you to be among the first shipping companies with an effective process for generating correct IHMs. From the very start of your shipbuilding project, we are your qualified partner to handle and meet IHM requirements.

Our smart software solution the IHM Green Server (IGS) supports all aspects of IHM preparation, certification and maintenance. The IGS enables you to manage the enormous amount of information required. Improved readability and data quality ensure your IHM is efficiently updated and maintained during your ship's operational phase. Our IGS solution:

- Records results of document analysis
- Lists ship-specific material assumptions
- Includes the structuring ship systems
- Defines location, system, etc.
- Prepares Visual/Sampling Check Plan
- Documents sample and analysis results
- Prepares Part I of the IHM
- Provides a smooth certification process
- Gives access to all related data and its management
- Maintains the IHM throughout the ship's life
- Utilises data for ship recycling preparations

### What you need to know about IHMs

The IHM consists of three parts:

Part I: Hazardous materials contained in the ship's structure and equipment

Part II: Operationally generated wastes

Part III: Stores

The parts are applicable to different stages in a ship's life cycle as shown in the table below:

Scope of the IHM		Shipbuilding and operating	Preparation prior to recycling	
		Part I Structure and Equipment	Part II Operationally generated Wastes	Part III Stores
HKC	EU SRR			
<b>Table A</b>	<b>Annex I</b>			
Mandatory for new/existing ships and new installations		✓		
<b>Table B</b>	<b>Annex II</b>			
Mandatory for new ships/installations; as far as practicable for existing ships		✓		
<b>Table C Materials</b> Potentially hazardous items			✓	✓
<b>Table D Materials</b> Regular consumable goods potentially containing hazardous materials				✓

In the shipbuilding phase, preparation of Part I of the IHM is required, focusing on the hazardous materials contained in the ship's structure and equipment.

Parts II and III of the IHM must be completed under the responsibility of the shipowner when a ship is prepared for recycling.

### The IHM for your new ships

The IHM quantifies and locates hazardous materials that are known to represent a potential hazard to people and the environment onboard ships.

For assuring safe and environmentally friendly handling of these materials, shipyards prepare the ship-specific IHM based on supplier information. The information must be provided by the suppliers via the Suppliers Declaration of Conformity (SDoC) and Material Declaration (MD).

Shipyards must therefore conduct the following steps:

1. Identify the component and equipment suppliers
2. Request the SDoC and MD from suppliers
3. Collect the SDoC and MD documents
4. Organise the SDoC and MD by location and quantity
5. Prepare Part I of the IHM
6. Send the IHM to a recognised organisation for certification

### Your benefits

- Be in line with current and upcoming legal regulations
- Prepare for compliance with regional requirements, such as EU Regulations
- Maintain your image as a green company
- Realise a higher resale value
- Avoid the rush after entry into force
- Enjoy a smooth IHM preparation and certification process
- Immediately enhance the work environment onboard ship
- Mitigate risks for health and the environment

### RELATED SERVICES

#### IHM certification

We offer certification of inventories for hazardous materials for new and existing ships.

#### Consulting services

Our Maritime Advisory service offers "Material Declaration Consulting for Shipyards and Suppliers" based on individually tailored concepts for the smart establishment and management of integrated Material Declaration databases.

#### Ship recycling services

Specifically, for shipyards and shipowners, our Maritime Advisory offers performance assessments, gap analysis and project supervision services related to HKC and EU SRR.

#### Advanced courses

Furthermore, the Maritime Academy offers specific advanced training courses.

#### HazMat Expert training

We offer qualification for hazardous material experts according to HKC and EU SRR for IHM preparation.