

**Part 1. Potentially hazardous materials in the ship's structure and equipment**

1A Asbestos & Asbestos Containing Materials (ACMs)				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III*	Basel Convention, Annex VIII
<b>Engine room and machinery spaces</b>				
Asbestos	Steam supply piping and hangers	Engine room and machinery spaces	H 11	A2050
Asbestos	Steam exhaust piping and hangers	Engine room and machinery spaces	H 11	A2050
Asbestos	Relief and safety valves	Engine room and machinery spaces	H 11	A2050
Asbestos	Miscellaneous piping outer coverings and hangers	Engine room and machinery spaces	H 11	A2050
Asbestos	Water pipes and hangers	Engine room and machinery spaces	H 11	A2050
Asbestos	HP turbine insulation	Engine room and machinery spaces	H 11	A2050
Asbestos	Boiler drums, casings and furnace insulations	Engine room and machinery spaces	H 11	A2050
Asbestos	Heaters, tanks, etc.	Engine room and machinery spaces	H 11	A2050
Asbestos	Other Machinery equipment	Pump room, Boiler rooms	H 11	A2050
Asbestos	Other	Engine room and machinery spaces	H 11	A2050
<b>Accommodation</b>				
Asbestos	Sanitary and commissary spaces	Accommodation	H 11	A2050
Asbestos	Interior decks including underlay	Accommodation	H 11	A2050
Asbestos	Steam and exhaust pipes	Accommodation	H 11	A2050
Asbestos	Refrigeration pipes	Accommodation	H 11	A2050
Asbestos	Air conditioning ducts	Accommodation	H 11	A2050
Asbestos	Cable transits	Accommodation	H 11	A2050
Asbestos	External bulkheads	Accommodation	H 11	A2050
Asbestos	Internal bulkheads	Accommodation	H 11	A2050
Asbestos	External deckheads	Accommodation	H 11	A2050
Asbestos	Internal deckheads	Accommodation	H 11	A2050
Asbestos	Decks adjoining machinery spaces	Accommodation	H 11	A2050
Asbestos	Specific locations	Accommodation	H 11	A2050
Asbestos	Others	Accommodation	H 11	A2050
<b>Deck</b>				
Asbestos	Steam supplying piping	Deck	H 11	A2050
Asbestos	Exhaust piping	Deck	H 11	A2050
Asbestos	Tank cleaning piping	Deck	H 11	A2050
Asbestos	Stripping pumps	Deck	H 11	A2050
Asbestos	Specific deck locations	Deck	H 11	A2050
Asbestos	Other	Deck	H 11	A2050
Asbestos		Deck	H 11	A2050
<b>Machinery</b>				
Asbestos	Brake linings	Machinery	H 11	A2050

1B Paints and coatings on vessel's structure				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Tin based anti-fouling coatings		External topside shell plate area, external shell bottom to bilge keels, rudder trunk area, etc	H 12	A4030
Hexavalent chromium compounds		Paints (lead chromate) on ships' structure	H 11	A1040

1C Plastic Materials				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Polyvinyl Chloride	Ceiling panels, lining and partition panels, internal bulkheads	Accommodation spaces	H 13	
Polyvinyl Chloride	Sewage and grey water drainage pipes	Sanitary spaces, machinery spaces (piping to holding tanks, etc.)	H 13	
Neoprene	EEB Devices, other hoods and masks	Engine room and accommodation spaces	H 13	
Other Plastics			H 13	

1D Materials containing PCBs, PCTs, PBBs at levels of 50 mg/kg or more				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Materials and wastes containing, consisting of or contaminated with polychlorinated biphenyls (PCBs), polychlorinated terphenyl (PCTs), polychlorinated naphthalene (PCNs) or polybrominated biphenyl or any other polybrominated analogues of these compounds at a concentration level of 50 mg/kg or more	Capacitors in light fittings, PCBs in oil residuals, gaskets, couplings, wiring and cable insulation, transformers, etc.	Engine room, other machinery spaces, deck areas (valves solenoid rooms, emergency generator room and generally in areas where systems/equipment indicated in the left column are positioned	H 11	A3180

1E Gases sealed in ship's equipment or machinery				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Refrigerants	AC Plant Compressor, Refrigeration systems, other small capacity refrigerators	Engine room and upper deck areas  Refrigerators in the accommodation areas	Refrigerants such as R22/R12 have been identified as potentially ozone depleting substances under the Vienna Convention and its Montreal Protocol as well as the E.C. Regulation 2037/2000	
Carbon Dioxide (CO <sub>2</sub> )	Total flooding fire extinguishing system for engine room and pump-rooms  F/E systems for Inert Gas System, Emergency generator room, other areas	Engine room, Upper Deck Areas, CO <sub>2</sub> rooms for protecting certain areas	H 11	
Acetylene (C <sub>2</sub> H <sub>2</sub> )	Acetylene cylinders	Acetylene room in upper	H 2	
Halon 1211 (CF <sub>2</sub> BrCl)  Halon 1301 (CF <sub>3</sub> Br)  Halon 2402 (C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub> )	Total flooding fire extinguishing system for engine room and pump-rooms  Portable fire extinguishers	Engine room, Upper Deck Areas  Single cylinders in the accommodation areas	H 2  Halons have been identified as potentially ozone depleting substances under the Vienna Convention and its Montreal Protocol as well as the E.C. Regulation 2037/2000	
Propane (C <sub>3</sub> H <sub>8</sub> ) Butane (C <sub>4</sub> H <sub>10</sub> )	Single pressure vessels for water heaters, cutting torches equipment, ovens, space heaters, etc	Accommodation areas, workshop rooms in engine room	H 2	A4080
Oxygen	Oxygen cylinders for medical or cutting/welding purposes	Workshops in the engine room, accommodation areas	H 2	A4080

1F Chemicals in ship's equipment or machinery				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Anti-seize compounds		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Engine Additives		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Antifreeze fluids		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	A3140
Kerosene	Heaters, ovens, etc.	Accommodation areas	H 3	A3020, A4060
White Spirit		In workshops as a cleaning, degreasing, diluting agent, etc. or in accommodation for medical purposes	H 3	A3020, A4060

Boiler/water treatment and water test re-agents		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
De-ioniser regenerating		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Evaporator dosing and descaling acids		Engine room and machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Paint/Rust stabilizers			The MSDS of each product should be consulted to identify the predominant hazard	A4070
Chemical refrigerants			The MSDS of each product should be consulted to identify the predominant hazard	
Battery electrolyte	Emergency generators, lifeboats, radio-communications equipment, fire alarms, start up equipment, portable radios, torches, etc.	Engine room and other machinery spaces, Navigational bridge, deck, accommodation areas	H8 class of hazard was assigned due to the potential presence of corrosive sulfuric acid (with threshold concentration 1% w/w). Other hazardous fluids should be also checked.	
Hotel Service cleaners			The MSDS of each product should be consulted to identify the predominant hazard	
Biocides and phytopharmaceuticals including pesticides and herbicides		Accommodation areas and cargo holds	H 6.1	A4030
Pharmaceutical products	Medical rooms and portable drugstores	Accommodation areas and engine room	H 6.1	A4010
Other materials			The MSDS of each product should be consulted to	

1G Other Substances inherent is ship's machinery, equipment or fittings				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Lubricating oils	Main engine, Gen. Engine, Stern tube and sealing arrangements, propeller and shaft, steering gear, etc.	Engine room and other machinery spaces	H 12	A3020, A4060
Lubricating oils	Cranes, Mooring winches, etc.	Weather Deck	H 12	A3020, A4060
Hydraulic Oils	Hydr. controlled systems, valves solenoid systems, etc.	Engine room and other machinery spaces including deck equipment	H 12	A3020, A4060
Radioactive materials	Smoke and heat detectors, liquid level indicators, emergency signs, etc.	All areas of a ship where the equipment of the left column has been installed	H 11	
Mercury, mercury compounds	Thermometers, bearing pressure sensors, level switches, fluorescent lamps	Engine room, hospital, Navigational Bridge, W. Deck, Accommodation areas, etc.	H11, H12	A1010, A1030
Antimony	Alloys with lead in lead – acid storage batteries, solder		H 11	A1010, A1020
Beryllium	Hardening agent in alloys, fuel containers, navigational systems		H 11	A1010

Cadmium, cadmium compounds	Bearings, batteries, bolts, nuts		H 11	A1010, A1020, A1080
Lead, lead compounds	Cable insulation, batteries		H 11	A1010, A1020, A1080, A1160, A2010
Zinc residues containing lead and cadmium in concentrations that render them hazardous	Anodes (Cu, Cd, Pb, Zn)	Outer shell, ballast tanks	H 11	A1020, A1080

## Part 2. Operationally generated wastes

2A Dry tank residues				
Potentially Hazardous Wastes	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Cargo residues		Cargo holds for bulk cargoes, packaged cargoes on deck and cargo holds	The MSDS of each product should be consulted to identify the predominant hazard	

2B Bulk (non oily waste)				
Potentially Hazardous Wastes	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Ballast water		Ballast tanks, double hull spaces, fore and aft peak, other designated ballast tanks	H 12	
Sediments - microorganisms		Ballast tanks, double hull spaces, fore and aft peak, other designated ballast tanks	H 12	
Raw sewage		Sewage holding tank	H 6.2	
Treated sewage		Sewage treatment plant	H 6.2	
Sewage sludge		Aeration tank of the sewage treatment plant, sewage holding tanks	H 6.2	
Garbage (incl. plastics)	Receptacles	Designated temporary storage areas throughout the ship		A4130
Galley wastes	Receptacles	Designated temp. storage areas		
Wastes that contain materials recorded in the Parts 1 and 3 of the Inventory			The MSDS of each product should be consulted to identify the predominant hazard	
Other			The MSDS of each product should be consulted to identify the predominant hazard	

2C Oily waste / oily residues				
Potentially Hazardous Wastes	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Cargo residues		Designated slop tanks, cargo tanks	H 12	
Tank scale		Oil cargo tanks, fuel oil tank/s	H 12	
Oil residues (sludge)		F.O. sludge tank/s, L.O. sludge tank/s	H 12	
Oil water mixtures		Bilge holding tank/s, bilge wells, etc.	H 12	
Waste oils		Waste oils tank/s, fuel oil overflow-drainage tank/s	H 12	
Oil contaminated rags	Segr. receptacles	Engine room, deck and other machinery spaces	H 12	
Fuel oil		F.O. tanks, F.O. settling and daily service tanks	H 12	
Diesel Oil		D.O. storage tanks, D.O. service tanks	H 12	
Gas Oil		G.O. service tanks	H 12	
Grease	Segr. collection means	Engine room, deck and other machinery spaces	H 12	
Other			H 12	

### Part 3. Stores

3A Gases in store				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Refrigerants		Storage areas throughout the ship	Refrigerants such as R22/R12 have been identified as potentially ozone depleting substances under the Vienna Convention and its Montreal Protocol as well as the E.C. Regulation 2037/2000	
Carbon Dioxide (CO <sub>2</sub> )		Storage areas throughout the ship	H 11	
Acetylene (C <sub>2</sub> H <sub>2</sub> )		Storage areas throughout the ship	H 2	A4080
Halon 1211 (CF <sub>2</sub> BrCl) Halon 1301 (CF <sub>3</sub> Br) Halon 2402 (C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub> )		Storage areas throughout the ship	H 2 Halons have been identified as potentially ozone depleting substances under the Vienna Convention and its Montreal Protocol as well as the E.C. Regulation 2037/2000	
Propane (C <sub>3</sub> H <sub>8</sub> ) Butane (C <sub>4</sub> H <sub>10</sub> )		Storage areas throughout the ship	H 2	A4080

Oxygen		Storage areas throughout the ship	H 2	A4080
--------	--	-----------------------------------	-----	-------

3B Chemicals in store

Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Anti-seize compounds		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Engine Additives		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Antifreeze fluids		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	A3140
Kerosene		Storage areas throughout the ship	H 3	A3020, A4060
White Spirit		Storage areas throughout the ship	H 3	A3020, A4060
Boiler/water treatment and water test re-agents		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
De-ioniser regenerating		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Evaporator dosing and descaling acids		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Paint/Rust stabilizers		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	A4070
Chemical refrigerants		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Battery electrolyte	Emergency generators, lifeboats, radio-communications equipment, fire alarms, start up equipment, portable radios, torches, etc.	Storage areas throughout the ship	H8 Class of hazard was assigned due to the potential presence of corrosive sulfuric acid (with threshold concentration 1% w/w). Other hazardous fluids should be also checked.	
Hotel Service cleaners		Storage areas in the accommodation spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Biocides and phytopharmaceuticals including pesticides and herbicides		Storage areas throughout the ship	H 6.1	A4030
Pharmaceutical products	Medical rooms and portable drugstores	Storage areas in the accommodation spaces and the engine room	H 6.1	A4010

Other materials			The MSDS of each product should be consulted to identify the predominant hazard	
-----------------	--	--	---	--

3C Other Packaged items in store				
Potentially Hazardous Material	Equipment/System	Location	Basel Convention Hazard Class, Annex III	Basel Convention, Annex VIII
Lubricating oils		Storage areas in the engine room and other machinery spaces	H 12	
Hydraulic Oils		Storage areas in the engine room and other machinery spaces	H 12	
Lead acid batteries		Storage areas throughout the ship	H 8	A1170
Alcohols		Storage areas throughout the ship	H 3	
Methylated Spirits		Storage areas throughout the ship	H 3	
Epoxy resins		Storage areas in the engine room deck and other machinery spaces	The MSDS of each product should be consulted to identify the predominant hazard	
Paints		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	A4070
Fire fighting clothing		Storage areas throughout the ship	The MSDS of each product should be consulted to identify the predominant hazard	
Other			The MSDS of each product should be consulted to identify the predominant hazard	

\* Corresponds to the hazard classification system included in the United Nations Recommendations on the Transport of Dangerous Goods (ST/S