

INVENTORY OF HAZARDOUS MATERIALS

Survey Pack

MV NORTHSTAR - DEMO DATA

IMO Number: DEMO-0000000

Flag State: Malta (demo)

Classification Society: Example classification society

Gross Tonnage: 14500 GT

Trading Area: Worldwide (demo)

Designated Person: Demo Designated Person

Contact: demo@mantis-ihm.com

Generated: 10 August 2026

Items in inventory: 35

Material changes recorded: 12

Waste entries (Part II): 8

Store products (Part III): 15

Generated by MANTIS — Maritime Hazardous Materials Inventory System

mantis-ihm.com

Inspection Readiness Summary

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100

Inspection ready - demo assessment

0 blocker(s), 0 warning(s) at export time.

Level	Area	Issue	Detail
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Part I-1: Paints & Coating Systems

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#	Application	Name	Location	Material	Qty	Unit	Remarks
1	Primer beneath coating system	Hull underwater primer	Hull below waterline	Lead compounds	1640	m²	Demo coating-file reference CF-DEMO-001
2	Waterline coating system	Boot-topping primer	Port and starboard waterline	Lead compounds	128	m²	Demo MD reference MD-DEMO-001
3	Internal protective coating	Ballast tank coating	No. 1-4 ballast tanks	Lead compounds	2460	m²	Demo coating-file reference CF-DEMO-002
4	Internal tank lining	Fuel tank lining	Settling and service tanks	Hexavalent chromium compounds	640	m²	Demo MD reference MD-DEMO-002
5	Bilge protective coating	Engine-room bilge coating	Main engine room bilges	Lead compounds	186	m²	Renewed during demo refit 2026
6	Deck and bulkhead primer	Steering-gear-room coating	Steering gear room	Hexavalent chromium compounds	82	m²	Demo coating-file reference CF-DEMO-003
7	Non-slip deck system	Forecastle deck primer	Forecastle deck	Lead compounds	144	m²	Demo supplier evidence accepted
8	Chain locker protective coating	Anchor locker coating	Port and starboard chain lockers	Lead compounds	74	m²	Condition checked during annual review
9	Damaged coating repairs	Cargo hold touch-up coating	Cargo holds 1-3	Hexavalent chromium compounds	310	m²	Demo repair specification RS-DEMO-014
10	Machinery foundation coating	Main deck machinery primer	Mooring stations and winch beds	Lead compounds	92	m²	Demo MD reference MD-DEMO-005
11	Heat-resistant coating system	Funnel casing primer	Funnel and exhaust casing	Hexavalent chromium compounds	58	m²	Demo coating-file reference CF-DEMO-006
12	Pigment in legacy topcoat	Accommodation exterior topcoat	Deckhouse exterior	Cadmium compounds	520	m²	Demo record retained pending next renewal
13	Two-part floor coating	Emergency generator room floor	Emergency generator room	Lead compounds	46	m²	Demo MD reference MD-DEMO-007
14	Chemical-resistant lining	Paint locker lining	Bosun store paint locker	Lead compounds	34	m²	Demo coating-file reference CF-DEMO-008
15	External primer system	Fresh-water tank external coating	Double bottom tank tops	Hexavalent chromium compounds	118	m²	Demo survey estimate

Part I-2: Equipment & Machinery

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#	Name	Location	Material	Parts where used	Qty	Unit	Remarks
1	Main HVAC chiller no. 1	Main engine room	HCFC-22	Sealed refrigerant circuit	42	kg	Charge verified against demo ODS record
2	Main HVAC chiller no. 2	Main engine room	HCFC-22	Sealed refrigerant circuit	42	kg	Phase-out included in demo refit plan
3	Fixed fire-extinguishing bank	CO2 and fire-control room	Halon 1301	Legacy machinery-space protection	64	kg	Demo system record; no discharge reported
4	Emergency generator batteries	Emergency generator room	Lead compounds	Four starter batteries	96	kg	Demo replacement evidence BAT-DEMO-002
5	Main engine starter batteries	Main engine room	Lead compounds	Two battery banks	188	kg	Demo MD and SDoC linked
6	Main switchboard capacitors	Engine control room	Polychlorinated biphenyls (PCBs)	Legacy power-factor correction units	1.6	kg	Demo analysis report LAB-DEMO-004
7	Fluorescent lighting - machinery spaces	Engine and auxiliary machinery rooms	Mercury compounds	T8 fluorescent tubes	48	pcs	LED replacement programme in progress
8	Navigation reference unit	Bridge equipment room	Mercury compounds	Legacy tilt switches	2	pcs	Scheduled for replacement at demo refit
9	Ionisation smoke detectors	Accommodation and service spaces	Radioactive substances	Americium-241 detector sources	18	pcs	Demo equipment schedule ES-DEMO-011
10	Radar processor circuit boards	Bridge electronics cabinet	Polybrominated biphenyls (PBBs)	Flame-retarded circuit-board components	8	pcs	Demo supplier declaration on file
11	Cargo crane control cabinets	Main deck crane pedestals	Polybrominated diphenyl ethers (PBDEs)	Cable and electronic housings	4	pcs	Demo MD reference MD-DEMO-011
12	Emergency lighting batteries	Accommodation electrical lockers	Cadmium compounds	Nickel-cadmium battery packs	36	pcs	Demo battery register cross-reference

Part I-3: Structure & Hull

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#	Element	Location	Material	Parts where used	Qty	Unit	Remarks
1	Main engine exhaust lagging	Main engine room	Asbestos	Thermal insulation and cloth	24	kg	Demo survey sample confirmed; encapsulated
2	Auxiliary boiler flange gaskets	Boiler flat	Asbestos	Legacy flange gaskets	3.2	kg	Condition monitored in demo maintenance plan
3	Keel ballast blocks	Double bottom and duct keel	Lead compounds	Encapsulated ballast blocks	12800	kg	Demo construction record CR-DEMO-003
4	Cable-transit sealant	Machinery and accommodation bulkheads	Polychlorinated biphenyls (PCBs)	Legacy fire-rated transit compound	6.4	kg	Demo laboratory reference LAB-DEMO-006
5	Accommodation insulation panels	Decks 2-5	Polybrominated diphenyl ethers (PBDEs)	Foam insulation core	86	kg	Demo refit documentation reference RF-DEMO-022
6	Engine-room acoustic panels	Main engine room casing	Polybrominated biphenyls (PBBs)	Flame-retarded panel backing	42	kg	Demo material declaration on file
7	Pipe-support pads	Fuel preparation room	Asbestos	Legacy compressed-fibre pads	18	pcs	Demo visual survey reference VS-DEMO-017
8	Fire-door insulation cores	A-class division doors	Asbestos	Insulating core material	14	pcs	Demo sample record; doors remain sealed

Change Log

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Date	Description	Location	Part I	MD Ref	SDoC Ref	Notes
2025-08-14	Baseline inventory adopted from demo survey and supplier records	All vessel areas	I-1, I-2, I-3	MD-DEMO-BASE	SDOC-DEMO-BASE	Initial controlled working record created.
2025-09-22	Emergency generator battery bank renewed	Emergency generator room	I-2	MD-DEMO-021	SDOC-DEMO-021	Removed batteries transferred to a demo reception facility.
2025-10-18	Forecastle deck coating repaired after windlass overhaul	Forecastle deck	I-1	MD-DEMO-022	SDOC-DEMO-022	Coating quantity and location updated.
2025-11-06	Cargo crane control cabinet no. 2 replaced	Main deck - port crane	I-2	MD-DEMO-023	SDOC-DEMO-023	Supplier evidence accepted and linked.
2025-12-11	Auxiliary boiler flange gaskets inspected and two renewed	Boiler flat	I-3	MD-DEMO-024	SDOC-DEMO-024	Non-asbestos replacements installed; retained quantity revised.
2026-01-27	Engine-room bilge coating renewed during planned maintenance	Main engine room bilges	I-1	MD-DEMO-025	SDOC-DEMO-025	Demo coating file and contractor report attached.
2026-02-19	Navigation reference unit survey completed	Bridge equipment room	I-2	MD-DEMO-026	—	Legacy unit retained; replacement added to next refit scope.
2026-03-04	Machinery-space fluorescent tubes partly replaced with LED fittings	Auxiliary machinery room	I-2	MD-DEMO-027	SDOC-DEMO-027	Twelve demo tubes removed and disposal record linked.
2026-04-22	Ballast tank coating touched up following close-up inspection	No. 2 port ballast tank	I-1	MD-DEMO-028	SDOC-DEMO-028	Area and coating quantity updated from work report.
2026-05-16	Main HVAC no. 1 leak repair and refrigerant recharge	Main engine room	I-2	MD-DEMO-029	—	ODS record and contractor service report cross-referenced.
2026-06-18	Cable transit condition survey completed	Engine-room forward bulkhead	I-3	—	—	No physical change; inspection evidence retained.
2026-07-29	Annual IHM review completed with no open findings	All vessel areas	I-1, I-2, I-3	—	—	Demo working inventory reconciled with change log and evidence index.

Part II: Waste Stream Summary

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Date	Annex	Waste Type	Qty	Disposal Method	Location	MARPOL Ref
2026-01-12	Annex I	Oily residues (sludge)	4.2 m3	Delivered to reception facility	Demo Port Alpha	ORB-DEMO-2026-041
2026-02-12	Annex I	Waste lubricating oil	1.8 m3	Delivered to reception facility	Demo Port Bravo	ORB-DEMO-2026-052
2026-03-12	Annex I	Oily bilge water	3.6 m3	Processed ashore by reception facility	Demo Port Charlie	ORB-DEMO-2026-063
2026-04-12	Annex IV	Sewage treatment sludge	0.9 m3	Delivered to shore reception facility	Demo Port Delta	SRB-DEMO-2026-014
2026-05-12	Annex V	Operational waste - general	740 kg	Delivered to reception facility	Demo Port Echo	GRB-DEMO-2026-031
2026-06-12	Annex V	Recyclable packaging	286 kg	Delivered to recycling facility	Demo Port Foxtrot	GRB-DEMO-2026-038
2026-07-12	Annex VI	Recovered HCFC-22	6.4 kg	Transferred to specialist recovery contractor	Demo Port Golf	ODS-DEMO-2026-009
2026-08-08	Annex VI	Mercury-containing lamps	12 pcs	Transferred to hazardous-waste contractor	Demo Port Hotel	HW-DEMO-2026-011

Part III: Stores & Consumables Summary

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Category	Product	Manufacturer	Location	Table A	Table B
fuels	Example marine gas oil	Demo Marine Fuels	Fuel tank no. 3	—	Yes
fuels	Example hydraulic oil ISO VG 46	Demo Lubricants	Engine-room oil store	—	Yes
fuels	Example main-engine cylinder oil	Demo Lubricants	Cylinder-oil store	—	Yes
chemicals	Example evaporator descaler	Demo Marine Chemicals	Chemical locker	—	—
chemicals	Example boiler-water treatment	Demo Marine Chemicals	Chemical locker	—	Yes
paints	Example ballast-tank epoxy	Demo Coatings	Paint locker	—	Yes
paints	Example deck primer	Demo Coatings	Paint locker	—	Yes
paints	Example machinery topcoat	Demo Coatings	Paint locker	—	Yes
cleaning	Example degreasing agent	Demo Marine Chemicals	Engine-room chemical locker	—	—
cleaning	Example general-purpose cleaner	Demo Marine Chemicals	Bosun store	—	—
refrigerants	HCFC-22 spare cylinder	Demo Refrigerants	Refrigerant bottle store	Yes	—
refrigerants	Example non-ODS refrigerant	Demo Refrigerants	Refrigerant bottle store	—	—
spare_parts	Emergency generator gasket set	Demo Engine Parts	Technical stores - shelf B4	Yes	—
spare_parts	Nickel-cadmium emergency-light battery pack	Demo Electrical	Electrical store - cabinet E2	—	Yes
misc	Fluorescent lamp spares	Demo Electrical	Electrical store - cabinet E5	—	Yes

Certificate Status

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Type	Certificate No.	Issued By	Issue Date	Expiry Date	Status
International Certificate on IHM (ICIHM)	DEMO-ICIHM-2026-001	Example Recognised Organisation	2026-02-14	2031-02-13	Current
EU Inventory Certificate	DEMO-EU-IHM-2026-002	Example Recognised Organisation	2026-02-14	2031-02-13	Current
Annual Survey Endorsement	DEMO-ANNUAL-2026-003	Example Recognised Organisation	2026-07-29	2027-07-28	Current
Other Certificate	DEMO-RO-ENDORSEMENT-004	Example Recognised Organisation	2026-07-29	2027-07-28	Current