



ACTION TO BE TAKEN WHEN DEALING WITH COAL CARGO

This checklist should be used in conjunction with the ship operator's procedures and the IMSBC Code.

Cargo care checklist: Coal

01 PRIOR TO LOADING

Equipment

Vessel equipped with correct equipment for the carriage of coal

Essential Equipment:

- Calibrated and certified gas monitoring equipment available on board that can measure methane, oxygen and carbon monoxide in an oxygen deleted atmosphere.
- Testing equipment to check the pH of bilge water.
- Temperature measuring equipment capable of accurate measurement of between 0°C and 100°C and does not require physical entry into the hold.

Documentation received from shipper

Correct Bulk Cargo Shipping Name (BCSN) as per the IMSBC Code 4.3.3 including:

Cargo Group

Certificate of Moisture Content (established within 7 days of loading or after period of rain)

Transportable Moisture Limit (established within 6 months of loading)

Sulphur content

Particle size distribution

If the cargo is liable to emit methane

If the cargo is liable to self-heat

Warning

- Indonesian coal should be treated as self-heating regardless of declaration
- If not Group A and B then certificate provided by competent authority
- No cargo to be loaded without documentation

Visual Inspection of cargo stockpile

Look for excessive moisture

Look for signs of heating

Cargo temperature

Cargo temperature on loading confirmed as less than 55°C

Note

- If cargo temperature is greater than 55°C, do not commence loading. Follow your company procedures, issue a letter of protest and seek advice from an expert.

02 LOADING

Cargo temperature confirmed as less than 55°C immediately prior to loading

No signs of liquefaction (including splattering, slumping of cargo)

No sign of foreign matter

Trim in accordance with the IMSBC Code



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Cargo care checklist: Coal *continued*

If cargo is wet or sprayed with water, master should issue LOP for 'wet tonnes' measurement

Hatch covers

Ensure non-working hatches are kept closed during loading

On completion of loading hatch covers to be closed and ventilate as appropriate

Warning

- Unless expressly provided otherwise, surface ventilation is required for the first 24 hours following departure.

- For coal cargoes that are liable to self-heat, only natural surface ventilation is permitted for the minimum time necessary to remove methane buildup.

Confirm that methane levels are at an acceptably low level prior to closing hold ventilation.

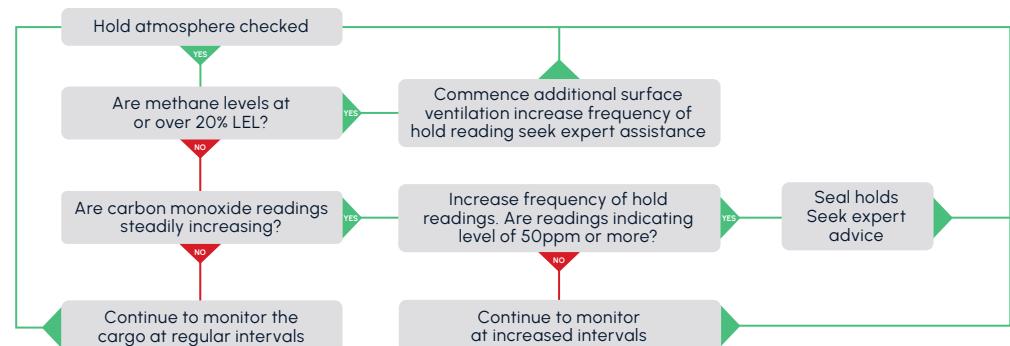
03 ON PASSAGE

Hold atmosphere to be monitored for the concentrations of methane, oxygen and carbon monoxide at regular intervals and the readings recorded

Hold bilge water should be tested for its pH level. If acidic, increase the frequency in which bilges are emptied

Keep comprehensive records of the amount of bilge water pumped

CARGO MONITORING FLOW CHART



Warning

- Ensure that personnel do not enter any cargo hold or adjacent enclosed space until the space has been ventilated and the atmosphere tested and confirmed as safe for entry.

04 DISCHARGE

Hold atmosphere confirmed safe – no personnel to enter until this is confirmed

Methane levels acceptable before hatches opened

Make known the total amount of bilge water pumped (dry tonnes + water pumped = wet tonnes)

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