

# Checklist for Planning stowage on Chemical tankers

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## ✓ **Step 1: Study the voyage order properly**

Idea is not to miss any important information as chemical tankers voyage instructions can have enormous amount of information that is easy to miss. If it suits you, take a print out of the voyage instructions and highlight the important sections.

## ✓ **Step 2: Check if you have proper shipping names of all the nominated cargoes**

You can check this from chapter 17 and 18 of the IBC code. If the cargo appears in IBC code, it is the proper shipping name. If it doesn't it is a trade name.

## ✓ **Step 3: Check if the cargoes appears in the cargo list of certificate of fitness**

If any cargo do not appear in the COF, vessel cannot load this cargo. Be sure to check that you are looking the cargo as proper shipping name and not for trade name in the COF.

## ✓ **Step 4: Check if the cargo is compatible with cargo tank coating**

Pay attention to any note mentioned against the cargo in the coating manual. If coating manual says the cargo is not compatible, it should not be loaded as it can damage the coating as well as cargo.

## ✓ **Step 5: For heated cargoes, check if vessel is capable of heating the cargo to the required temperature**

Even if vessel is capable of doing this, discussion with chief engineer is a good practice.

## ✓ **Step 6: Check if vessel has safety equipments, toxic gas detectors, antidotes etc required for the cargo**

The requirements can be found in chapter 14 of the IBC. Follow instructions in Chapter 17 of IBC code and your company's SMS manual.

## ✓ **Step 7: If nitrogen blanket is required, check if ship or shore N2 arrangements are in place**

Some cargoes require blanketing with high purity, low dew point nitrogen. In these cases even if vessel has a N2 generator, Nitrogen in bottles is required to be onboard.

## **STOWAGE PLANNING**

### ✓ **Do not stow incompatible cargoes adjacent to each other**

Check USCG compatibility chart for all the cargoes. Note down any incompatible cargoes.

### ✓ **Do not exceed the load density of the tank**

Keep in mind the load density of the cargo tank while planning the stowage of high density cargoes such as Sulphuric acid.

### ✓ **Do not stow temperature sensitive cargoes adjacent to heated cargoes**

Check any requirement for limitation on maximum adjacent temperature. If yes, do not stow this cargo adjacent to the heated cargo. You can find such requirement from Milbros / Miracle software and in voyage orders.

### ✓ **Do not exceed draft, trim, stability & strength limits**

Check on each leg of the voyage and for each cargo. This can be a time taking job but be sure of it. Do not exceed stability and strength limits at any stage of each leg. Also check your drafts and trim is OK for each leg of the voyage.