

## AWT- 450 MUD CONDITIONER

- Effectively disperse and remove existing mud and silt from ballast tank bottom and systems
- Prevent mud & silt accumulation at ballast tank bottom and systems
- Save time and labour cost
- Helps to comply with BWM 2004 standard
- Avoid unnecessary load from accumulated mud

### PRODUCT DESCRIPTION:

AWT-450 MUD CONDITIONER is a high molecular weight and highly charged liquid polymer.

Is highly effective in conditioning mud & silt in ballast tanks, pipelines, cooling water systems etc, preventing dense accumulation.

Ballast Water Management Convention 2004 strongly recommend that removing sediment from ballast water tanks and routine cleaning is one of the key strategies for reducing the risk of the spread of Alien Invasive Species (AIS) through ballast water transfer.

AWT-450 MUD CONDITIONER prevents suspended solids from adhering to the surfaces and can also be used to disperse the existing mud & silt accumulation that can be removed from the system easily.

### APPLICATION:

Ideally inspect the tank before application.

Should the mud be too heavy and thick, use fire hydrant to jet on the mud to loosen it and allow it to be lifted up from the tank bottom for better chemical contact. After which then apply the chemical.

### Dosage:

For removing of mud – 10 ltr per 100 tonnes of ballast water.  
For maintenance sediment free from the tank – 2.5 ltr per 100 tonnes of ballast water

### Dosing point:

Ideally is inject AWT-450 MUD CONDITIONER into the suction side of the ballast pump.

Alternatively, is sludge dose direct to the ballast tank via manhole before ballasting to ensure good mixing.

### Ballast:

Fill the ballast water to 35-50% of the full capacity of the tank. This is to utilise the rolling movement of the vessel for agitation. This is just a guide; vessel operation safety should be observed and take into consideration.

**Contact time:** Min. 24 hours, longer time is preferred.

**Deballast:**

As the loosened mud may settle down after the contacting time, hence ideally is pump in another 5 – 10% of seawater to create a turbulence for the loosened mud then deballast.

**Inspection:**

After deballast, take photo on the condition.

**Note:** Depend on the severity of the mud in the tank, 2<sup>nd</sup> application may be required.

**CAUTION**

Avoid spillage of AWT-450 MUD CONDITIONER, as floors, decks etc will become very slippery. Clean up the spillage as soon as possible.

**PHYSICAL PROPERTIES**

Appearance	: Clear
Relative Density	: 1.0 – 1.1
Form	: Liquid
pH	: 6.5 – 7.5

**Packaging** : Supplied in 25 litres non-returnable containers.

**Important information:**

Apex chemicals Safety Data Sheets are available. Safety Data Sheets contain health and safety information for proper products handling procedures to protect your employees. Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using.

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