

Tank Cleaner Solid



CleanForCargo Masava Tank Cleaner Solid
The worlds first non-liquid Tank Cleaner



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Tank Cleaner Solid



General product description

CleanForCargo Masava Tank Cleaner Solid (In daily talk Tank Cleaner Solid) or TCS, is a high-tech next generation biodegradable tank cleaner product. It is produced in Denmark and approved by IMO and all the major coating manufacturers.

Tank Cleaner Solid is a unique alkali tank cleaner that brings the word “concentrated” to a whole new level. TCS is 20 times more concentrated than normal standard tank cleaners in 200 Liter drums!

TCS has a very high versatility factor in use. It works well all types of fats, greases, oils, and acids. Effective for both veg- animal, and petroleum products. It is IMO approved and can be discharged as per IMO regulations while also being fully biodegradable.

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Chemistry and versatility

The advanced chemistry, combined with our inhouse formulas, enables the effective and modern chemical design of the CleanForCargo Masava Tank Cleaner Solid.

The very high PH-value >14 , is 100 times stronger than the PH12 that is found in most cleaners. An important parameter to achieve this high PH-value is that the saponification of sodium hydroxide is more efficient than it is using potassium hydroxide. The sodium hydroxide also accelerates the tensides used such as Tetrasodium ethylene acetates and alkyl polyglucosides.

Together these features and factors assists to increase the effectiveness of Tank Cleaner Solid, which is than 20 times more concentrated, compared to traditional water diluted tank cleaners.

Where land facilities accept it, then pre-wash using Tank Cleaner Solid can also be a great jump-start for the following tank cleaning. This however require permission from the land facilities. This is possible where the landed pre-wash water is only incinerated and not otherwise processed for recycling.

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How to blend and prepare

Always wear relevant personal protection gear - Tank Cleaner Solid (TCS) has a high basic PH-value of >14 . Therefore, both eyes and skin must be protected.

Open the lid of the bucket, cut the powder bag hiding inside, and pour the powder from the bag on top of the solid soap that is in the bottom of the bucket. Use a hand drill machine and a blender wing.

Add 5-liters of water and blend for 7-10 minutes. The bucket will be 45-55 degrees hot. After blending the bucket, it will contain 8 Ltr. of ready TCS.

The blended TCS will last as is for a long time and will never separate again. It means that the blend can be done in due time before use and it will not delay the operation and it can be used in small portions if desired.

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Mixing and dosage

Tank Cleaner Solid (TCS) is twenty times more concentrated than traditional cleaners in 200-Liter drums. It therefore means that the cleaner solid shall be used only in fractions of the volume normally used. The following guidelines compares the mixture ratio used for TCS compared to traditional cleaner:

Std. Cleaner/ Tank Cleaner Solid / One Bucket = Liters of washing water

2% Before = 0,10% TCS. / One Bucket = 8 liters makes 8.000 Ltr.

3% Before = 0,15% TCS. / One Bucket = 8 liters makes 5.333 Ltr.

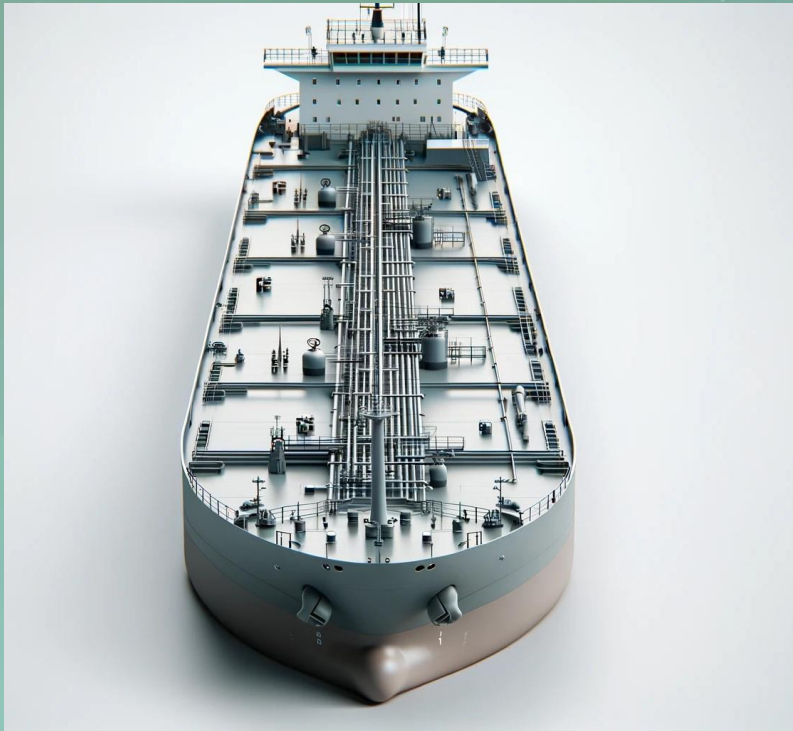
4% Before = 0,20% TCS. / One Bucket = 8 liters makes 4.000 Ltr.

5% Before = 0,25% TCS. / One Bucket = 8 liters makes 3.200 Ltr.

6% Before = 0,30% TCS. / One Bucket = 8 liters makes 2.666 Ltr.

8% Before = 0,40% TCS. / One Bucket = 8 liters makes 2.000 Ltr.

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Usage, methods and best practices

Tank Cleaner Solid (TCS) works well both in ambient temperatures and with heating, no matter if direct cleaning or in circulation. Moreover, the product works equally good with both FW and SW.

TCS is to be mixed as recommended in the TCS mixing guide – and used by Butterworth with washing water between 65 and 75 degrees celsius.

For difficult cargoes always start out with a little stronger solution, and then this can be reduced a bit over time, if the results shows it possible.

Alkali tank cleaning often leaves some white stains of hydroxide and/or if cleaning after FAME, also white traces of hydrocarbon on the tank surface.

White stains of hydroxide and hydrocarbon are flushed away during the following hot seawater wash, added some RSR acid to the washing water.

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Tank Cleaner Solid substitutes :

Navadan:	Navaclean 801,802,803 Alkatuff
Anmar:	TC-01 Heavy Duty Alkaline Tank Cleaner
Unitor:	Alkleen Liquid and Tank Clean Advance
Rx-Sol:	Multi Clean Tank Wash
Apex:	418 Alka Clean HD
Marichem:	Tank Cleaner A

And many other traditional alkali cleaners in the same range.



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Types of cargoes that responds well to TCS

Cargoes, products and remains - That are cleaned very well using Tank Cleaner Solid will include Fatty Acids in many forms:

- Vegetable Oils, Fish Oils, Mineral Oils and CPP products
- Used cooking oil, Palm Oil and Seed Oils
- FAME - Fatty Acid Methyl Esters
- Moreover – for cleaning of : Sludge, Dirt and Grimes

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Storage and stocking - dry & wet

Tank Cleaner Solid has a shelf life of minimum 5 years onboard

When mixed in due time ahead using – the liquid blend does not change

One bucket takes up only 5% of the corresponding 200-liter drum

Garbage will be less than 3% of drums and can be incinerated

No hazardous handling or craneage of drums on open deck improves crew safety

No expensive logistic, or costly barging and craneage

No need for last minute expensive purchase and logistic

All in all – CleanForCargo assists to avoid needless risk for operational delays

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Free Delivery - and automatic stock service

The philosophy behind Tank Cleaner solid is to keep a stock onboard for the next 6 to 12 month of operation – depending on the VsIs. trade area.

CleanForCargo have permanent stocks in ARA, Singapore and Piraeus. From these ports there are no or very limited delivery costs. We put the Tank Cleaner Solid the last mile onboard your vessels. Where demands will justify new stock points it can be agreed to do so.

In all other ports in the world, we can supply for the transportation net cost as long the lead time allows to pack and send. We recommend however to maintain the above-mentioned onboard stock – which will help to avoid expensive last minute logistic costs and operational delays.

CleanForCargo offers free of charge stock and replenishment service. Let us discuss how we can secure your operation and reduce your OPEX.