

22<sup>nd</sup> April 2024  
Our Ref number: TSS-TL-EL-24-008

Per Nykjaer Jensen  
CleanForCargo  
5700 Svendborg  
Denmark

**RE: Masava Tank Cleaner Solid**

Dear Per Nykjaer Jensen,

Following recent request to evaluate *Masava Tank Cleaner Solid* for use with Jotun Tank Coatings, our comments are as follows:

1. *Masava Tank Cleaner Solid* was evaluated based on:
  - external Cleaning Additive Evaluation followed by internal testing
  - review of the Product Data Sheet (Appendix I)
  - review of the composition stated in the Safety Data Sheet (Table 1) with focus on chemical resistance to listed raw materials.
2. *Masava Tank Cleaner Solid* must be used in accordance with Mixing Guide in terms of dosing (see Appendix I). Dosage up to 0.30% was tested with Jotun tank coatings.
3. Solution of *Masava Tank Cleaner Solid* with water shall be prepared prior to exposure to tank coatings.
4. The maximum cleaning temperature for any specific Jotun Tank Coating must be in line with recommendations given in General Note XIII shown in the latest Jotun Marine Tank Coating Notes available on [www.jotunprl.com](http://www.jotunprl.com).
5. Cleaning duration has not been stated in the PDS and the maximum period for washing must not be longer than 6 hours.
6. The cleaning effectiveness of *Masava Tank Cleaner Solid* was not assessed by Jotun.
7. Long term impact on Jotun Tank Coatings or impact if the cleaning additive is misused were not evaluated by Jotun.

Please note that if any changes are made to either composition or cleaning recommendations (concentration, cleaning duration and temperature) for *Masava Tank Cleaner Solid*, then Jotun must be notified by CleanForCargo and further review by Jotun must be carried out.

Cleaning Additive: <i>Masava Tank Cleaner Solid</i>	Mixing Guide	Safety Data Sheet
Issue / Revision / Version	Appendix I	Issue date 16.03.2016

Table 1. Document(s) provided by CleanForCargo to assess compability.

**Summary:**

Cleaning Additive	Tank coating							
	Tankguard CPC	Tankguard HB	Tankguard HB Classic	Tankguard Special	Tankguard Special Plus	Tankguard Special Ultra	Tankguard Flexline	Tankguard Zinc
Masava Tank Cleaner Solid	NR	R	R	R	R	R	R	NR

Table 2. Compatibility of Cleaning Additive with Jotun Tank Coatings.

**R** – Resistant

**R\*** - Resistant with additional comments. *Resistant if used strictly in accordance with the latest Product Data Sheet but recommended max temperature, maximum exposure time and/or max concentration may lead to discolouration of the tank coating.*

**LR**-Limited Resistance. *There is a risk that the cleaning additive can damage a tank coating beyond repair and therefore, exposure time, concentration, cleaning temperature and frequency of cleaning must be kept to absolute minimum.*

**NR** – Not resistant

Cleaning residues with cleaning additives can cause damage to the coating if not fully removed after cleaning process. Spent washing water, with or without cleaning additives, must never be left on the tank top after the cleaning procedure is completed, but must be removed in its entirety within 30 minutes. Minimum 24 hours active ventilation is required after cleaning, prior to loading of the next cargo.

Please refer to the latest revision of Jotun Marine Tank Coating Notes, available on [www.jotunprl.com](http://www.jotunprl.com) to gather more information about tank cleaning in the General Note XIII.

Yours sincerely,

Emil Langiewicz



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APPENDIX I

## 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**