



TANK SHINE CLEANER™

DESCRIPTION

TANK SHINE CLEANER is a powerful, heavy duty concentrated acid-based cleaning agent engineered to remove fatty acids stains from epoxy-coated tanks. The fatty acids remaining in the tanks are white-colored residues and they can be found in various petroleum products.

ADVANTAGES AND CHARACTERISTICS

A highly concentrated liquid blend of superior acids and non-ionic surface-active agent which contribute to the efficient removal and cleaning of cargo tanks, from fatty acid deposits.

- ◆ Acts quickly and thoroughly.
 - ◆ It is non - toxic.
 - ◆ When mixed with water gives excellent results.
 - ◆ Does not contain nonyl phenol ethoxylates and chlorinated compounds.
 - ◆ Non - flammable.
 - ◆ May be combined with a specific range of products.
 - ◆ Cost effective, easy to apply and use
- ▶ **According to MARPOL 73/78** chemical tankers are only permitted to use tank cleaning agents, which had been approved and evaluated by the International Maritime Organisation (IMO).
 - ▶ **TANK SHINE CLEANER** was evaluated in accordance with MEPC.1/Circ. 590 through IMO's Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals (ESPH Working Group) and found to meet the requirements of regulation 13.5.2 of Annex II of MARPOL 73/78.
 - ▶ **TANK SHINE CLEANER** is not harmful to the marine environment as per MARPOL MEPC 63 Annex V Amendment [MEPC. 71/17/Add.1 Annex 21, Resolution MEPC 295 (71)].

PHYSICAL PROPERTIES

Appearance/Color	: White-colored liquid
Odor	: Odorless
Specific Gravity	: 1.40 gr/cm ³ at 20°C
pH value	: 1.5 - 2.0
Flash Point	: None.



MARICHEM®

PACKAGING

Order Number	: 833053 (30 ltrs)
Container	: Plastic jerrican
Order Number	: 832154 (210 ltrs)
Container	: Plastic drum

APPLICATION AND USE

A. Dosing Procedure

The quantity of **TANK SHINE CLEANER** to be used is proportional to the tank capacity, the level of contamination and the degree of cleaning required. **TANK SHINE CLEANER** must be diluted with fresh water before use at a dilution rate 0.1% - 2%. After deciding the desired solution for the needs of the vessel the user (whilst taking all the necessary personal precautions) must add **TANK SHINE CLEANER** into fresh water and thoroughly mix.

B. Cleaning Procedure

Preparation: Before applying **TANK SHINE CLEANER**, prepare the tanks that are to be cleaned by washing them first (if this is possible), with a high-pressure warm water supply.

Rock and Roll method: This method is applicable for tank cleaning at sea. Fill the tank with 0.1-0.3% of **TANK SHINE CLEANER** and let solution act for 2-6 hours. This will enable the solution to soften, penetrate and dissolve the hard bottom deposits. Then fill the tank with seawater to 30% of total capacity and let the solution stand for approximately 1-2 days. During this period, cleaning will be initiated due to wave motion. After, fill the tank with seawater to 60% of total capacity and let the solution act for long enough, so that complete cleaning can be accomplished, due to wave motion/natural agitation. Afterwards, discharge solution from tank and then rinse off by filling tank 1-2 times its capacity with seawater.

▶ **Note** that **TANK SHINE CLEANER** must always be fed to the tank and then to the bunkers.

Recirculation Method: It is recommended to use the desired solution according to the degree of contamination and number of tanks to be cleaned with this solution. For this reason the dose rates and results of the cleaning may vary, but as minimum dosage a 0.5% - 2.0% solution of the product must be used. The best result is achieved around 70°C. ➔

Slop water should be pumped ashore or should be pumped to ship's slop tanks after finishing with the cleaning procedure.

! SAFETY AND HANDLING

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Do not breathe gas/vapors. Otherwise, seek fresh air source at once. Seek medical attention. In case of insufficient ventilation, wear suitable respiratory equipment.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before use.

Read the Material Safety Data Sheet before using this product.

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

MARICHEM MARIGASES Worldwide Services or any subsidiary or associated companies warranties of merchantability and competence, if any, along with any expressed warranties concerning this merchandise, shall not be actionable or pertinent or effective if the good is used contrarily or differently to the directions herein and in no other way due to impending hazards from inappropriate use of the good explained herein. Merchandise might vary insubstantially depending on country of origin. The information provided concerning merchandise is exclusively presented to the customer.