



material safety data sheet :

MARICHEM T.T.C.™

DESCRIPTION :

MARICHEM T.T.C. is a concentrated organic solvent- based liquid compound formulated with strong aromatic solvents, emulsifying agents and surface-active agents in order to attack, penetrate and dissolve heavy oil contamination, grease, petrochemical compounds and light carbonaceous deposits, which are accumulated in oil coolers, preheated double bottoms, bilges, deep tanks etc. Furthermore, it acts as a sludge conditioner.

ADVANTAGES AND CHARACTERISTICS :

- Effectively removes and dissolves mineral oils, grease, petrochemicals and carbon residues from tank surfaces, engine rooms, mechanical installations, engine units, parts and components that experience heavy deposition.
- Provides a quick and thorough emulsifying action.
- Can safely be used on all metal surfaces and its alloys (even if painted).
- No known effect on rubber and plastic compounds.
- May be used as a general purpose cleaner to remove oil and grease deposits.

PHYSICAL PROPERTIES :

MARICHEM T.T.C. is a powerful liquid blend of organic solvents, superior emulsifying agents and high grade surfactants.

Appearance / Color : Clear, colorless liquid.

Specific gravity : 0.85 gr/cm³ at 15 °C

Solubility in water : Miscible.

Flash Point : > 40 °C

Odor : Characteristic aromatic solvent odor

APPLICATION AND USE :

Dosing Procedure MARICHEM T.T.C. may be applied fully concentrated or diluted with water. The quantity to be used is proportional to the degree of contamination, the available downtime, the surface area to cover and the desired degree of cleaning. For heavy contamination, MARICHEM T.T.C. may be used undiluted, where as for lighter contamination we suggest a 30–50% solution with water. For tank cleaning and sludge conditioning various strength solutions between 0.1–0.3% may be used.

Cleaning Procedure The application of MARICHEM T.T.C. may be done by agitation, recirculation and/or soaking immersion. Rock and Roll method: This method is applicable for tank cleaning at sea. Fill the tank with 0.1–0.3% of MARICHEM T.T.C. and let the solution to act for 2–6 hours. This will enable the solution to soften, penetrate and dissolve the hard bottom deposits, which have formed. Then fill with seawater at 30% of the tank's capacity and let the solution stand for approximately 1–2 days time. In that period cleaning will be initiated due to wave motion. Then fill with more seawater to 60% of the tank's capacity and leave the solution to act long enough, so that complete cleaning due to wave motion/natural.

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SAFETY AND HANDLING:

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| 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.

Kemotor ships 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.

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