



## MARICHEM P.C.S.™

### DESCRIPTION

**MARICHEM P.C.S.** is an innovative, concentrated liquid product specifically engineered to attack, penetrate and remove pet coke accumulations from cargo and storage tanks. Additionally, it may also be used to remove mineral deposits and eliminate bad odors in tanks and other closed systems.

### ADVANTAGES AND CHARACTERISTICS

- Effectively removes pet coke and mineral deposits from cargo holds and tanks.
- Can also be efficiently used as a general purpose cleaner to eliminate bad odors in tanks and other closed systems.
- Acts quickly and thoroughly.
- Can safely be used on all metals and metal alloys (even if painted/varnished).
- Non-flammable, non-toxic, non-conductive & non-volatile.
- Soluble in seawater and fresh water.
- No known effect on rubber or plastic compounds.
- May be combined with a specific range of other 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).

**MARICHEM P.C.S.** 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.

### PHYSICAL PROPERTIES

**MARICHEM P.C.S.** is a concentrated liquid solution containing powerful surface-active agents, a corrosion inhibitor and aqueous chemical agents.

Appearance / Color : Clear, light yellow liquid.

Specific gravity : 1.1-1.2 gr/cm<sup>3</sup> at 20°C

pH : 11.5-12.5

Odor : Chlorine-like

### PACKAGING

Order Number : 833037 (30 ltrs),  
832138 (210 ltrs)

Container : Plastic jerrican,  
Plastic drum

### APPLICATION AND USE

#### A. Dosing Procedure

**MARICHEM P.C.S.** may be used concentrated or diluted with water, depending on the degree of contamination, the surface area to be treated, the desired degree of cleaning and the available downtime.

Actually, the user is the best one capable to regulate the quantity and concentration to be used for the situation at hand.

In any case, when the accumulation is not heavy, a 50% solution with water must be used. Otherwise, **MARICHEM P.C.S.** can be used undiluted especially when deposition is heavy and hard spots persist.

#### B. Cleaning Procedure

Conventional cleaning methods such as a brush, hard sponge, thick and hard broom and /or a mop can be used on heavy duty and hard stain deposits.

Note that for heavy accumulations the cleaning procedure might be necessary to be repeated until the results are satisfactory. Furthermore, is important to keep in mind that 1 litre of **MARICHEM P.C.S.** solution is sufficient to cover a surface area of 8-10 square meters.



**SAFETY AND HANDLING**

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