



IGS MARI-CLEANER™

DESCRIPTION

IGS MARI-CLEANER is high performance water based alkaline cleaning agent. It is a product that does not contain either nonyl phenols or caustic alkalis. It consists of biodegradable ingredients safe for Inert Gas Soot (IGS) removal, oil cleaning and metal degreasing.

ADVANTAGES AND CHARACTERISTICS

IGS MARI-CLEANER can be used as a cleaning agent for decks, cargo holds or even as a tank cleaner. It efficiently removes heavy grease, sludge, fatty oil, fish oil, animal and vegetable oil. It can be used neat or diluted with fresh water. It is readily biodegradable after use.

One of the main advantages of **IGS MARI-CLEANER** is that can provide excellent cleaning effect of inert gas soot in cargo tanks.

- ▶ 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).
- ▶ **IGS MARI-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**.
- ▶ **IGS MARI-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	: Pale/Yellow Liquid
Odor	: Ethereal Odor
Specific Gravity	: 0.98 - 1.02 gr/cm ³ at 20°C
pH value	: 11.50 - 13.00
Flash Point	: None
Solubility	: Completely Soluble in water
Compatibility	: May attack Aluminium and Zinc when used in a high concentrated solution.

PACKAGING

Order Number	: 833065 (30 ltrs)
Container	: Plastic jerrican
Order Number	: 832165 (210 ltrs)
Container	: Plastic drum

APPLICATION AND USE

For direct cleaning of inert gas soot contamination (spraying method) a solution of 6% - 8% of **IGS MARI-CLEANER** must be used.

After application, leave the solution to act for 30 - 45 minutes and rinse thoroughly with water under high pressure. Keep the surface wet.

- ▶ When using **Butterworth recirculation method** a solution of 1% - 2% of **IGS MARI-CLEANER** must be used.

CLEANING PROCEDURE FOR RECIRCULATION WITH BUTTERWORTH

1. Wash the tanks to be cleaned with hot water using the Butterworth.
2. Remove all deposits and residues.
3. Apply the chemical solution (**MARICHEM TTC** solution 0.3% - 0.5%) through the Butterworth.
4. Depending on contamination and temperature/moisture conditions, the cleaning time generally varies between 2 to 3 hours, or more if required.
5. After the application, rinse with sea or fresh water (preferably hot water at 50°C - 70°C) and check the results.
6. Proceed with spot clean, in case required.
7. For removing IGS (Inert Gas Soot) contamination the required product is **IGS MARI-CLEANER**.
 - 7a. For direct cleaning of contamination (spraying method) a solution of 6% - 8% of **IGS MARI-CLEANER** must be used. After application, leave the solution to act for 30 - 45 minutes and rinse thoroughly with water under high pressure.
 - 7b. When using Butterworth recirculation method a solution of ca. 1% - 2% of **IGS MARI-CLEANER** must be used.
8. Steam out tank, if necessary.
9. Drain tank, pumps and line.



! 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.

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