

**ALCACLEAN H.D.™****DESCRIPTION**

ALCACLEAN H.D. is a high quality product classified as a general cleaner/remover of vegetable oil, animal oil, fat, fuel oil, lube oil and coal residues from cargo and storage tanks as well as to other systems. Furthermore, it removes different type of coal cargo residues from the cargo holds and carbonaceous deposits, resulting from car exhausts that can exist in a ship's garage area, roof walls and hull sides. This powerful concentrated formula provides immediate and efficient results whilst also acting as an odor eliminator. Its use on Aluminum, Zinc and Tin surface coatings is prohibited unless further dilution with water has been conducted.

ADVANTAGES AND CHARACTERISTICS

- A non-flammable liquid mixture.
- Effectively dissolves all fat, vegetable and animal oil, dry or not.
- It removes coal cargo residues from the cargo holds.
- Efficiently removes coal deposits.
- Can be used as a general purpose cleaner to remove oil and grease deposits.
- An odor binder and eliminator.
- Can be combined with a specific range of products.
- Soluble in fresh and sea water.
- Acts as an acid-neutralizing agent.
- 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).

ALCACLEAN H.D. 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

ALCACLEAN H.D. is a water solvent alkaline concentrated liquid solution, consisting of specific salts, detergents and wetting agents.

Appearance / Color	: Clear, colorless liquid
Odor	: Odorless
Specific gravity	: 1.22 gr/cm ³ at 15°C
pH	: 13
Flash Point	: None

PACKAGING

Order Number	: 833003 (30 ltrs), 832103 (210 ltrs)
Container	: Plastic jerrican, Plastic drum

APPLICATION AND USE**A. Dosing Procedure**

Rock and Roll method: Add 15–20 litres of **ALCACLEAN H.D.** for every ton of fresh or sea water when the tank is filled to 30% of its capacity.

Circulation method: A solution of 5–10% must be prepared by diluting **ALCACLEAN H.D.** with fresh or sea water.

Injection method: Prepare a solution of 5–10% by diluting **ALCACLEAN H.D.** with fresh or sea water.

B. Cleaning Procedure

Rock and Roll method: After you have filled the tank with water (fresh or sea) to 30% of its capacity and added the required amount of **ALCACLEAN H.D.**, let it stand for approximately 24 hours. Then fill with more water to 90% of the tank's capacity level. This way the tank will be cleaned by natural agitation due to wave motion. Leave for a few days, then drain the tank completely and rinse off by ballasting–deballasting the tank 2–3 times with water.

Circulation method: After the solution is prepared, apply by circulating for approximately 6–8 hours. Thereon, wash thoroughly with water.

Injection method: When the prescribed solution is prepared, inject directly to the contaminated area. Afterwards, rinse thoroughly with water.

IMPORTANT INFORMATION

ALCACLEAN H.D. is considered to be a highly caustic product. Operators must always consult the Safety and Handling instructions table before using this product.



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.