



RX MARINE INTERNATIONAL
Total Solution Total Protection
AN ISO CERTIFIED COMPANY



AquaTuff

Part/Order no:

RXSOL-22-3030-025

Packing

25 Ltr

Aqua Tuff:

Very effective Emulsifier - based cleaner for use in hold cleaning and general degreasing. its heavy molecular surfactants rapidly reacts with water and produce effective cleaning solution .May be applied by brush, hand spray and by high and low pressure washing machines.

It is a strong water based alkaline cleaner primarily designed to provide numerous cleaning applications including:

- Cleaning of vegetable oils, animal oils, fatty acids, fish oils, grease, waxes, oil, sludge soot, carbon deposits and general dirt and grime.
- Cleaning of inert gas soot in cargo tanks.
- Cargo hold cleaning after coal and pet coke.

It is a heavy duty non corrosive concentrated cleaning compound soluble in fresh and salt water , also suitable with high pressure cleaning machines. Ideal for difficult cleaning problems faced in industrial and other plants, Very effective degreaser which removes dirt, oil and grease from the equipment, parts, components, engines, floors and walls etc.

AQUATUFF LIQUID - HD:

The Importance of Rx Tuff by High-Pressure Cleaning.The job of high pressure cleaning can be done easier & quicker by simply using RxTuffin correct dosages.Using a high pressure cleaner alone, without any CLEANER, will not achieve optimal cleaning results High-pressure cleaning primarily refers to cleaning of,

such as Decks, Tanks, Engine-rooms, etc. and in the majority of cases the cleaning is done according to the so-called two-step method:

Step 1: Spraying the RxTuff over the area to be cleaned.
Step 2: Washing down the area using a high-pressure water jet.

After the RxTuff has been sprayed on the surface and before the wash down begins, the chemicals penetrates & thoroughly moistens dirt & other grime. During wash down, the RxTuff thoroughly dissolves the particles of dirt, even oil and fat, in the water spray and thus achieves optimal cleaning results. In addition to being more effective, the use of RxTuff substantially reduces the time required for the cleaning operation, as well as preventing dirt from reforming on the surface. The use of RxTuff in correct dosages is half the job done.

3 Pieces of Good Advice:

Apply RxTuff on dry surface where possible! A dry surface will absorb far better than a wet surface. When applying RxTuff on vertical surfaces: Start application from the bottom and work upwards! If beginning from the top and going downwards, the RxTuff may produce "channels" down the surface, thereby running too fast off the surface. During high pressure cleaning: It is important that the rinsing water does not run over non-cleaned surfaces! The rinsing water can draw soap from the surface if running over non-cleaned surfaces. High pressure together with optimum concentration of RxTuff will give the best effect .

Product Description:- RxTuff is a superior & powerful alkaline cleaner containing corrosion inhibitors to prevent the corrosion of metals . It is a low toxic product with an exceptional solvency power on soil & oily matter & having good foaming qualities. It is free from Hydrocarbon solvents , Biodegradable and minimizes the extreme hazards to personnel in handling materials .

Applications:- Aqua Tuff Suitable for cleaning engine components like fuel and Lube oil filters, Injection nozzles, pump components, inlet and exhaust valves & primarily refers to cleaning of hard surfaces, such as Decks, Tanks, Engine-rooms, etc. can be used for all types of cleaning and degreasing and may be applied by brush, handspray, high and low pressure washing machines etc.

Directions for Use and Dose Rates:

General Cleaning :- Aqua Tuff can be used for all types of cleaning & degreasing & may be applied by Brush, Hand spray, high and low pressure washing machines etc. Time necessary for cleaning depends on the nature and thickness of the deposits. 20-30 min. will suffice for most applications. Hardened, carbonised or aged deposits may require up to 4 hours.

If the cleaning solution is not heavily contaminated, it may be re-used at a later stage. If allowed to cool, the de-gassing procedure must be repeated. Depending on degree of contamination Aqua Tuff should be mixed with warm water at a rate of 50-200 ml per 10 litres. i.e. 1 cup of Aqua Tuff to a bucket of water. Aqua Tuff solution can be applied simply by mops, brushes or rags, or by dipping the soiled articles into the Aqua Tuff solution. After cleaning, rinse off with cold or warm water. Due to high foaming properties, Aqua Tuff is not recommended for washing machines

Tank Cleaning:-Cargo tank cleaning to remove residues of Mineral, Animal, Vegetable or Fish oil, Waxes & Soot from inert gas systems.

Method of Application and Dose Rates:-

- Direct injection method for tank washing machines. Dose rate 1-5 litres per ton wash water (0.1-0.5%)
- Recirculation method. Dose rate 1-7 litres per ton wash water (0.1-0.7%).
- Spot hcleaning. Hand spray neat or diluted with up to 5 parts water and leave for several minutes before rinsing off with clean water.

Cleaning of Cargo Tanks to Remove Soot from Inert Gas Systems:-:

- Spray Aqua Tuff on with a high pressure cleaning machine and use 1:6 with water . If used with hand sprayer ,spray
- the product neat onto the surface, allowing 1 lit. For every 12 m2. Use a 5-8% solution in a tank washing machine.
- Leave for about 30-45 minutes. The surface should be kept wet.
- Wash down with hot water(80°C) and check the cargo tank.
- Repeat the procedure if necessary.

Note:- When ever possible, the cleaning solution should be heated to 60-80°C.If this method is not possible, other conventional methods such as separate rate direct injection, re-circulation or hand spraying provide acceptable options . For boiler fire side cleaning, a 10-20% hot solution, (temp. above 40°C), should be sprayed on to the surfaces to be cleaned. Allow to penetrate for 20 minutes and flush off. For deposits which are very hard to remove, increase the concentration to 50% and repeat if necessary.



Applications:

20-50 % with fresh water . Also acts as an acid- neutral-izing agent for Boiler & cooling systems during cleaning & maintenance.

Heavy Soil deposition - Use Undiluted from to 20- 50% diluted with water.

Medium soil deposition - 10-20% diluted with water.

Light Soil (general degreasing) - 5-10% diluted with water.

can be used for different types of cleaning, and it can be applied by brush, hand spray, High & Low pressure washing machines, by Direct Injections method but is mostly used by Recirculation method.

Removal of soot from Inert Gas Systems (IGS)

- Apply AQUATUFF-LIQUID with a H.P. cleaning machine and use 1:4 with water. If used by hand spray, apply neat on the surface @ 1ltr per 12m2.
- Leave for about 30 - 45 minutes. The surface remains wet.
- Wash down with hot water at around 800 C. Repeat procedure 1 to 3, if required.

Cargo tank and Cargo hold cleaning

AQUATUFF LIQUID can be used for tank cleaning after animal, vegetable and fish oil, petroleum waxes, and for cargo hold cleaning after soot, coal, pet coke and other bulk materials using the following methods -

- **Direct injection method with tank washing machines:** Dosage rate 10-15 lts. per 1000 liters wash water (1-5%).
- **Recirculation method:** Use dosage rate of 20-50 liters per 1000 liter wash water.
- **Spot Cleaning:** Hand spray neat or prepare a 10-20 % solution. Leave for approx. 30 minutes before rinsing with water. Keep surface wet.

Pre-Wash:-

Before cleaning tanks with AQUATUFF is recommended to pre-wash cargo tanks with hot water 50-60 0C. For Drying oils and semi- drying oils a prewash of the tanks with cold water should be applied.

The efficient operating temperature varies and is depending upon the type of cargo residues which are to be cleaned. In cases like Palm oil residues the optimal solution temperature is between 55-65 0C at the tank cleaning machine nozzle. Higher temperature tends to bake on the residues rather than removing them. Hydrogenated oils contain stearic acid with melting point of approx. 70 0C. to clean such cargo residues successfully, a temperature between 72-77 0C at the tank cleaning machine nozzle must be used.

Note:-

- Conforms to IMO MEPC. 1/Circ.590. February 2008.
- Removes grease, oil, carbon deposits, soil and grime.
- Keeps loosened deposits in suspension preventing re-deposition.
- Low toxic.
- Biodegradable.
- Non-flammable.
- Free from hydrocarbon solvents.
- Effective and economical in use.
- Water-based cleaner.
- RxTuffhas numerous cleaning applications including removal of greases, waxes, oil, sludge, soot, carbon deposits and general dirt and grime.
- Non-corrosive to ferrous metals.
- Suitable for all tank-coatings.
- Can be used for gas and hydrocarbon freeing of tanks.
- Can be used for deodorizing.
- Contains wetting agents.
- Leaves surfaces residue free.
- Acceptable for use in food areas.

- Suitable for accommodation cleaning of woodwork, leather, desks, etc.
- Suitable for cleaning of toilets and showers.
- Suitable for cleaning of reefer boxes.
- Can be used for cleaning of windows and portholes.
- Can be used for cleaning of dishes.
- Can be used for cleaning of hospitals.
- Can be used for hand laundry cleaning.
- Leaves no white stripes/ deposits on tank surfaces after washing with hot solution.
- Very powerful alkaline cleaner based on strong anionic surfaces active agents and alkaline salts.
- Cleans vegetable oils, animal oils, fish oils, greases, waxes, oil, sludge, soot carbon deposits and general dirt and grime by thorough saponification.
- Very efficient for removing inert gas soot (IGS) residues from cargo tanks.
- Contains no hydrocarbon solvents.
- Safe to used on epoxy coating, polyurethane coatings and in stainless steel tanks.
- Does not contain nonyl phenol ethoxylates or other estrogenic compounds.
- Has excellent deodorizing properties, removing odours of aromatic solvents, fish oil residues .
- Biodegradable.