



www.marine3technologies.com

TECHNOLOGY

Marine 3 Technologies (M3T) offers a groundbreaking patented anionic surfactant that has been extensively researched and developed from sea water over a period of 11 years.

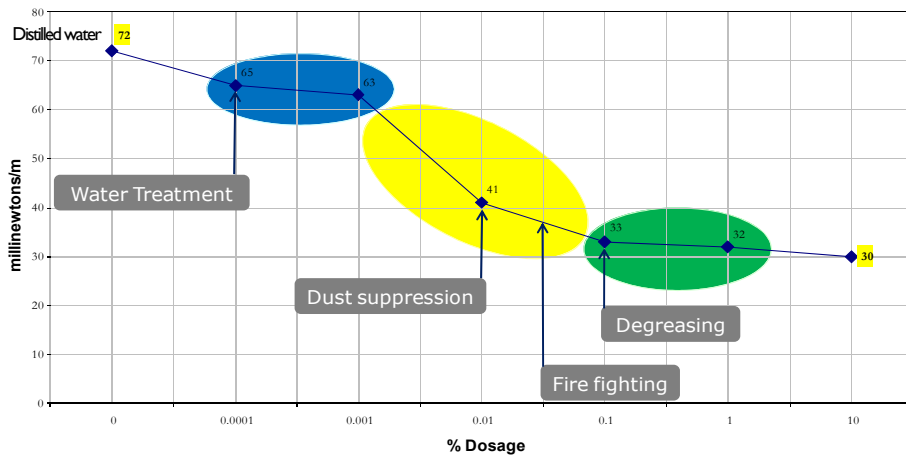
M3T is primarily used in the pre-treatment of water. The quality of water and its properties are manipulated in an entirely natural way.

This natural product neutralises the magnetic charges of particles in water thus reducing surface and interfacial tension.

Benefits of reduced surface and interfacial tension:

- Increased adhesion of the liquid to a solid particle thus resulting in a powerful **wetting agent**.
- Allows for water and oil-based droplets to break down into finer globules and to stay in suspension for longer, resulting in powerful **emulsification**.
- Prevention of particles to cluster or agglomerate together, thus resulting in powerful **de-agglomeration**.

Result of M3T on water surface tension



INDUSTRY APPLICATIONS

- Oil & Gas
- Marine & Shipping
- Transportation
- Aviation
- Manufacturing
- Motor & Engineering
- Food processing
- Mining
- Beverage and bottling
- Domestic
- Dairy
- Agriculture

BLOOD-STAINED WORK CLOTHES



Washing with normal washing powder



Washing with normal washing powder and 5ml M3T 3005

CLEANING: CASE STUDIES

Wetting, emulsification and de-agglomeration properties of M3T increases the foam quality in the cleaning medium, resulting in shorter time periods required for effective sanitation. Conventional cleaning processes require a pre-wash, water wash, soap wash and disinfecting.

Broiler pen

By adding M3T and decreasing the disinfectant by 50%, the soap wash is eliminated, saving time, water and cleaning material.

An inspection after the conventional cleaning method was used still indicated a presence of bacteria, whereas none was found after the M3T method was used.

M3T dosage: 0.1% to volume

SWAB test (Broiler Pen)	Bacteria Count
Prescribed cleaning agents	30
50% Prescribed & 0.1% M3T	0

Industrial kitchen

The rodac count in an industrial kitchen was 264 before any cleaning was done. After the existing cleaning procedure, 49 rodac plates were still found. After washing with M3T only, the rodac count was found to be between 6-7. Ultimately M3T was used in combination with 50% of original disinfectants which completely eliminated the existence of any rodac plates.

M3T dosage: 0.1% to volume

Rodac plates CFU per plate (Incl. kitchen)	Before	After
Dirty	264	
Soap I		49
Marine 3 Product		7 & 6
Combination		0

CLEANING SOLUTION

The product performs extremely well and is therefore recommended as a replacement for conventional cleaning agents in the market to reduce cost and increase environmental acceptance.

- One all-in-one environmental friendly and safe product to reduce requirements for solvents, ammonia and glycol.
- Water pre-treatment - The product enhances water quality by adding and increasing the ability to give wetting and emulsification during application.
- This product can be added to cleaning agents as an enhancement or just added to water for any cleaning applications.
- Lift and remove all kinds of non-wet table materials and dusts as well as the emulsification of oil and fat-based materials with cleaning water.
- Remove non-wet table bacteria and emulsifies oil-based bacteria-habitat into cleaning water with high performance soil-suspension

APPLICATION AREAS

- Residential and commercial properties.
- Industrial properties.
- Mining operations.
- Animal feeding and water trays.
- Irrigation and spraying systems.
- Water and effluent plants.
- Road spillage.
- Oil and chemical spillage.
- Washing bays and plants.

OTHER APPLICATIONS

- Dust suppression; air born, surface & industrial.
- Cleaning; general, bacteria and oil.
- Agricultural; wetter/sticker/spreader, filtration agent and fertilizer enhancer.
- Broiler Chickens; cleaning and water treatment.
- Cement; plaster aid, ready mix and bricks.
- Effluent; treatment and sludge transportation.
- Road stabilization.
- Flocculation.
- Micro milling.
- Heating and cooling.
- Paint and pigment.
- Pulp and paper.
- De-scaling.

Breaks the cohesion of the molecule structure creating a micro emulsion



OIL SPILLAGE

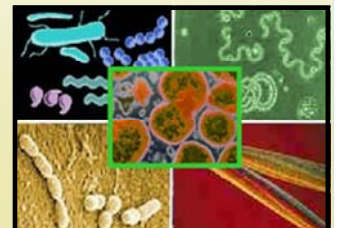
Creates an explosive growth of bacteria



Cohesion Process

Sewage system or environmental situation

Micro Emulsion



CSIR
our future through science

MSDS
Available on request

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WATERLAB

SMI Analytical