

## TC 588 - TANK CLEANER

### GENERAL DESCRIPTION

Norchem TC 588 is a complex blend of aromatic solvents, wetting, dispersing and emulsifying agents, specially formulated as a multi-purpose tank cleaner and heavy duty degreaser.

### ADVANTAGES

- Cleaning and degassing can be done at sea
- Economical - Concentrated solution
- Fast penetration and emulsification
- Eliminates hazards to personnel and equipment
- No objectionable odour and non-corrosive
- High flash point means greater safety
- Superior solvency
- Biodegradability for easy disposal

### TYPICAL APPLICATIONS

Norchem TC 588 is used for cleaning and removing deposits from tanks after carrying oil based cargoes as well as for the cleaning and degassing of double-bottom and deep tanks at sea. Other outstanding applications include the use of TC 588 as a heavy duty degreaser for removing oily and greasy contaminations from decks, engine rooms, platforms and other hard surfaces, for cleaning bilges and as an effective oil spill dispersant.

### USE DIRECTIONS

#### ***Tank cleaning***

TC 588 can be used according to the following methods:

- Direct injection
- Recirculation
- Gravity feeding
- Atomisation
- Hand-spraying
- Spot and manual cleaning
- Rock 'N' Roll (Double bottom and deep tanks only)

Besides the hand spraying and spot cleaning method, the recommended dosage is 1 to 2 litres per ton of water.

#### ***Cleaning double-bottom and deep tanks using the Rock 'N' Roll' method***

The cleaning and degassing are mainly done at sea utilizing the ship's natural movements. Time and temperature are the most important factors. Normally five days will be sufficient to clean and gas free the tanks. However, in calm weather or where no heating is available, the solution should be left in the tanks as long as possible.

Step one through step six should be followed for cleaning heavy fuels from 1500 to 3000 sec. Redwood (370 - 650 cts.) For the lighter oils, 1500 sec. Redwood and lower step one and two may be omitted.

#### STEP ONE:

Strip off all possible fuels and sludge from tank. Steam tank for approximately 10 to 15 hours and strip constantly.

#### STEP TWO:

Introduce 1 to 2 ltrs of TC 588 per ton tank capacity through the sounding pipe into the tank. Fill tank to 25% capacity with seawater. Turn on heat to the maximum temperature. Utilizing ship's natural movements, allow 48 to 72 hrs agitation time.

#### STEP THREE:

Strip tank completely and introduce a second dosage of chemicals. Fill tank to 50% capacity. Repeat step two. After 48 hours fill tank to 75%, heat for another 48 hours before discharging.

#### STEP FOUR:

Discharge the solution and strip the tank. Pressure rinse through the sounding pipe with clean water for approximately 1 hour.

#### STEP FIVE:

Preferably, steam tank for 4 hours and strip constantly. Final rinse by overflowing to remove excess residual vapor.

#### STEP SIX:

Remove manhole covers to allow airing and tank is ready for inspection.

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### ***The hand-spraying method***

Spray undiluted TC 588 on all surfaces to be degreased. Depending upon severity of soils, allow up to 1 hour of residual time for TC 588 to dissolve and penetrate, then hose off with fresh or sea water.

### ***The spot or manual cleaning method***

TC 588 is used neat or dilute with 2 to 3 parts of water. Apply by brushing or mopping before hosing off with water.

### **OTHER RECOMMENDED USES**

- 1) ***Bilge Cleaning:***  
Use 1 to 2 litres per ton capacity. Fill the bilge to a level which provides all areas requiring cleaning. After 24 hrs pump bilge dry and repeat if necessary.
- 2) ***Oil Spill:***  
Spray neat TC 588 to disperse and emulsify an oil spill. Agitate sprayed areas with high pressure stream of water or with a long pole. Alternatively, the treated surface can be run over by a motorboat.
- 3) ***General Cleaning & Degreasing:***  
Use neat or dilute with 1 to 2 parts of water. Application by spraying, brushing, mopping or dipping.

### **PRODUCT SPECIFICATION**

Appearance	: Light brown liquid
Flash Point	: Above 80°C
Odour	: Paraffin like
Specific Gravity	: 0.87 ± 25°C
Stability	: 3 yrs when stored under normal conditions
Toxicity	: Low
Viscosity	: N.A.

### **HANDLING PRECAUTIONS**

Avoid prolonged contact with TC 588 and do not use near open flames. If contacted, flush exposed areas with plenty of water. Harmful if swallowed.

### **PACKAGE**

Supplied in 25 and 200 litres container.