

## COAL TAR REMOVER

### APPLICATIONS

*COAL TAR REMOVER* is used for cleaning tanks, heat exchangers, air coolers etc.

### DIRECTIONS FOR USE

1. After discharging, pre-wash the tanks for 2 hours with seawater at a maximum temperature of 50°C.
2. Remove any sediment by hand.
3. Make a solution in the tank which has to be cleaned in the ratio of 100 lt. of *COAL TAR REMOVER* to 900 lt. of water.
4. Heat the solution up to approx. 50°C, using the heating coils.
5. Start circulation (cargo pump, cargo line with jump to the Butterworth line to the Butterworth machines).
6. Continue circulation for 4 - 8 hours at the same temperature.
7. Pump the solution into another tank.
8. Wash the tank with water and inject some *SEACLEAN* or *COLD WASH* into the Butterworth line if necessary.
9. If the tanks are coated with zinc-silicate, there may be a discoloration after cleaning. If so, make a solution of fresh water and *BUFFERCLEAN 5,5 CONCENTRATED* in the tank in the ratio of 9 to 1 = 10% solution.
10. Heat this solution up to 50°C.
11. Circulate for 1 - 2 hours.
12. Wash with fresh water.
13. Drain the tank.
14. For chloride-free cleaning, steam the tank with live steam.

### CLEANING HEAT EXCHANGERS

1. Start with a shock treatment with steam, followed by flushing with cold water to break hard deposit layers. This will help the cleaning with coal tar remover afterwards.
2. Fill the system with *COAL TAR REMOVER* and circulate by means of a pump at max. 50°C for approx. 8 hours.
3. Drain and flush with water.

### CLEANING AIR COOLERS

For badly soiled air coolers use the circulation method or spray system.

*COAL TAR REMOVER* is used undiluted by means of a pump, spray and drain-tank by circulation through the air cooler at 50°C, for approx. 8 hours. During the cleaning the system should be closed and the surrounding area well ventilated.

No. 4.18



## COAL TAR REMOVER

Emulsifying cleaning agent for the removal of coal tar, crude benzene, pyrolyse gas oil, bitumen and similar substances

- Effective cleaner, does not leave carbon residues
- Excellent for cleaning heavily contaminated heat exchangers
- Economical, can be used as an emulsion with seawater
- Minimizes waste water, because of fast separating properties (product contamination sinks to the bottom of the separation tank because it is heavier than water)

### PRODUCT CHARACTERISTICS

Appearance:	colorless / dark amber liquid
Corrosive action:	suitable for most common metals, should however not be used on rubbers (except on Viton rubber) and plastics (except nylon, polypropylene, epoxy coatings and polyurethane)
Density:	1,2 (20°C)
Flash point:	87°C
pH 1% solution:	7
IMO Class:	9 / III
UN Number:	3082
ADR:	9.11c)

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**UNIClean**

**UNIGAS**

**UNI marine**  
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## CLEANING IN IMMERSION BATHS

For cleaning metal components that are badly soiled with coal tar or similar substances *COAL TAR REMOVER* is used undiluted in immersion baths. During cleaning the bath must be closed and the surrounding area well ventilated. After cleaning the parts should be well flushed with water.

## NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is subjected to:

R22	: Harmful if swallowed
R36/38	: Irritating to eyes and to skin
R52/53	: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment
R67	: Vapors may cause drowsiness and dizziness
R68	: Possible risk of irreversible effects
S2	: Keep out of the reach of children
S23	: Do not breathe gas, fumes, vapor or spray
S26	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	: Wear suitable protective clothing, gloves and eye / face protection
S45	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S60	: This material and its container must be disposed of as hazardous waste
S61	: Avoid release to the environment. Refer to special instructions / safety data sheets