

## DESCRIPTION

DREW NBD neutral-based degreaser is a very effective universal degreaser used for removing vegetable, animal and mineral oils and grease where alkaline cleaning is not suitable. DREW NBD neutral-based degreaser is safe on most metals, including zinc, tin, aluminum and galvanized materials and it is suitable for zinc-silicate coated tanks. DREW NBD has been evaluated and approved as a tank cleaning additive under MEPC.1/Circ.590. Tank cleaners approved by IMO are used onboard chemical/ product tankers in chemical cargo tank cleaning operations and are added in small amounts to the wash water in order to facilitate tank washing.

## TANK CLEANING

The following tank cleaning instructions are not intended to interfere with the judgment of the Master, Chief Mate, or Chief Engineer in the operation and/or navigation of the vessel. They are meant only as a guide since circumstances for each tank cleaning operation will vary. The recommendations provided are designed to achieve the optimum results and are based on over 80 years of tank cleaning experience.

## APPLICATION & USE

**Prewash** - Prior to tank cleaning with DREW NBD neutral-based degreaser, it is advised to prewash with hot water at 60° C. In the case of drying or semi-drying oils, prewash with cold water.

**Recirculation Method** - Prepare a 2 to 5% solution of DREW NBD neutral-based degreaser in a separate mixing tank. Using an automatic tank washing machine,

recirculate for 2 to 6 hours at 20 to 80° C. Heat is normally achieved by the use of heating coils in the tanks. The volume of the recirculating tank washing system should be carefully calculated to ensure that there is sufficient cleaning solution for continuous recirculation. One cleaning solution normally cleans 2 to 3 tanks, if the soil loading is not too great.

**Spray Method** - Spray the sides of the tanks with undiluted DREW NBD neutral-based degreaser until they are properly coated. Allow the product to work for at least 20 minutes. Rinse with water at 60°C for 45 minutes.

**Hydrocarbon-Free Cleaning** - After cleaning with a solvent emulsifier cleaner, use DREW NBD neutral-based degreaser with fresh hot water at 70° C.

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Colorless liquid
Specific Gravity @ 25°C:	0.99 Flash
Flash Point:	N/A
pH:	6.7

**NOTE:** Always wear the appropriate personal protective equipment when using this product.

## FEATURES

- IMO approved under MEPC.1/Circ.590
- Neutral pH
- Concentrated formula

## BENEFITS

- Cleaning solution is disposable at sea providing cargo residue is disposable at sea
- Removes hydrocarbons from solvent emulsion cleaning
- Suitable when the next cargo is high purity, such as methanol
- Usable on zinc silicate-coated tanks
- Suitable when non alkaline cleaning is necessary
- Suitable for recirculation



Contact your Drew Marine representative for more information

## **PACKAGING**

DREW NBD neutral-based degreaser is available in 25-liter (PCN 1726407) and 200-liter (PCN 1726423) containers.

## **IMPORTANT INFORMATION**

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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