

**REFERENCES OF SUCCESSFUL SHIPS TANK CLEANING**

C.F.Ahrenkiel – Germany  
 Crystal Pool – Belgium  
 GEFO – Gesellschaft für Oeltransporte GmbH - Germany  
 Hiltveit Associates – USA  
 Jo Tankers – Norway  
 John T. Essberger – Germany  
 Seatrans – Switzerland  
 Stolt Nielsen – Norway  
 Transocean Management – Singapore  
 UCT – United Chemical Transport– Germany  
 Anders Utkilens – Norway  
 Vopak Pool – Netherlands

**REFERENCES OF SUCCESSFUL SHORE TANK CLEANING**

Vopak Hamburg / Germany  
 DUPEG Hamburg / Germany &  
 Changing of product range  
 From Petrochemical products  
 to Foodgrades  
 by **< WATENSOL® N >** cleaning

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**SCHMITT UND FINTELMANN (INLABCO) GMBH**

**< WATENSOL® N >**

*... the trend setting cleaner*



**AND BY ORDER AT ANY SEAPORTS WORLD WIDE**

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**ECO-FRIENDLY AND ECONOMICAL TANK CLEANING**

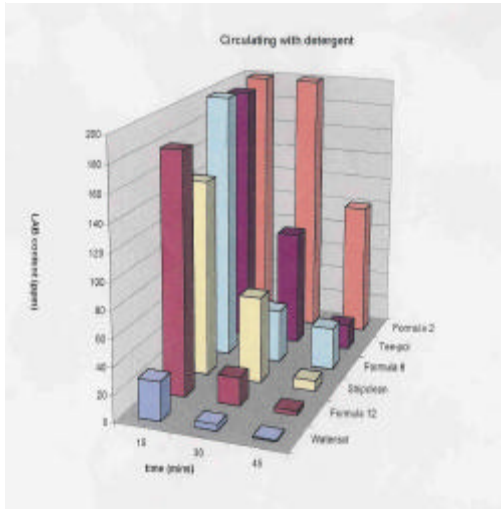
SCHMITT UND FINTELMANN (INLABCO) GMBH  
 developed the innovative technical cleaning product  
**< WATENSOL® N >**  
 as a decisive advantage by innovation

For more detailed information click: [www.inlabco.com](http://www.inlabco.com)

**YOUR 24 HRS. CONTACT : + 49. 40 899664 12**



The innovative cleaning procedures for chemical tankers are cost-saving and eco-friendly. Better cleaning results and a shorter process time lead to an increase in transport efficiency. Apart from ship tanks the cleaning procedure can be applied to various other tanks, shore tanks, containers and others.



## < WATENSOL® N >

0,1 % dilution

... the trend setting cleaner

SEWAGE REDUCING & ENVIRONMENT PROTECTING

For more detailed informations visit our home page,  
click: [www.inlabco.com](http://www.inlabco.com)

Eco-friendly cleaned ship tanks and their main cargo systems are of increasing importance in sea transport. Even on chemical tankers in parceltrade in the North and Baltic Sea, tank cleaning remains a big problem: No cleaning method considers adequate both, ecological and chemo-physical aspects. Cleaning is expensive, time consuming and only effective if additional strong chemicals are used in changeover of ship tank cargos from:

- mineral oil products i.e. lubricating oil,
- paraffines i.e. slack wax,
- vegetable oils/fats or animal oils / fats,
- fluid chemicals with intensive odour as Styrene, Nitrobenzene, Gasoline.

Tank cleaning is quick, successful and eco-friendly



M/T „CHEMBULK SINGAPORE“ AT ELBEPORST BÜTZFLETHERSAND GERMANY

The cleaning of ship tanks with < WATENSOL® N > is adapted to the individual cleaning problems and allows a changeover of tanks and their main systems within normal process times to the transport of high quality liquid chemicals.

Compared with conventional cleaning procedures the remaining amount of dirty solution is considerably lower.

Further advantages are a shorter process time and a lower energy consumption. The used Watensol polluted with mineral oil products and paraffines can be easily disposed of as a conventional oil-water-emulsion. This is shown by tests of Hamburg recycling companies with the support of the authorities for the environment.

## CHARACTERISTICS OF < WATENSOL® N >

- ◇ Yellowish viscous liquid, odourless, freely soluble in water,
- ◇ Freezing point 4 °C,
- ◇ Free of any solvents, pH-value 9.0 – 10.0 (alkaline),
- ◇ Not dangerous to human health or environment,
- ◇ No dangerous good as per ADR/ RID, GGVs/ GGVE, ADN/ ADNR, IMDG/ GGV See, ICAO-TI, IATA-DGR.
- ◇ The 0.1% washing solution contains biodegradable surface agents, complexing agents and additives (biodegradability > 90 %), accepted by **IMO** in accordance with **Marpol Annex II** and **IBC-Code** and can be disposed at sewage plant.
- ◇ According to our knowledge, the use of < WATENSOL® N > produces no problems regarding the construction material of the loading tanks, lines and pumps.
- ◇ Required concentration in water 0.1 %, one bucket into 10 cbm of water, suitable for re-circulation cleaning and injection into butterworth system.