



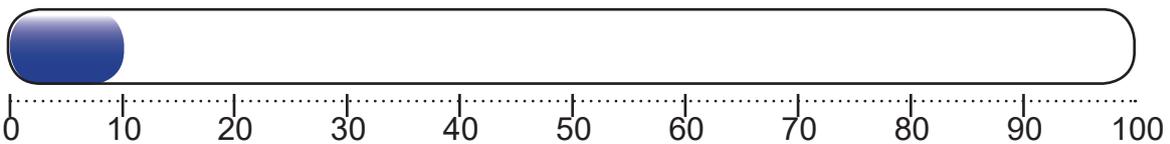
SMART KLEEN

720-430x



APPROVED TANK CLEANING ADDITIVE

**1-10%
Solution**



“Enhance Effectiveness & Efficiency”

REV.1

Description:

Smart Kleen is a heavy duty water based alkaline tank cleaner, containing natural based detergents. It is a powerful cleaner for the cleaning of cargo tanks after discharge of drying, semi-drying and non-drying natural oils and fats. Smart Kleen can be used for tank sanitising and deodorising prior to changing to foodstuffs. To achieve the high standard of cleanliness required, a final wash will be necessary by using this product. *** For Zinc silicate coating use Alkaline green ***

Features and benefits:

- Biodegradable
- Non-flammable
- Non-corrosive to ferrous metals and epoxy coatings
- Rapid penetration and emulsification of vegetable, animal and fish oils with rapid rinsing
- Removes hardened oxidised oil and grease deposits and can be used as heavy duty cargo tank cleaner following discharge of drying, semi-drying and non-drying natural oils and fats
- Can be used for hydrocarbon freeing of cargo tanks

Approval:

Our tank cleaning products have been evaluated and approved by the International Maritime Organization (IMO) and meet the requirements of regulation 13.5.2 of MARPOL Annex II. And approved products are listed in Annex 10 of IMO's MEPC.2/Circ

Physical properties:

Appearance	Clear liquid
Relative density (water = 1)	1.165-1.185
pH	13

Application and Use :

Immediately after use the cargo has been discharged , the tanks should be flushed with cold water to prevent polymerisation and evaporation of the lighter fractions. Whenever possible, the cleaning solution of 0.2-3% in fresh water should be heated to 60-80 C. However, the polymerising nature of some natural oils demand lower cleaning temperatures.

Dosing method :

The most economical method to use Smart Kleen is by direct injection followed by recirculation washing by using tank cleaning machines.

If this method is not possible, use of other methods such as recirculation or hand spraying.

When changing refrigerated cargoes the need may arise to clean holds to remove animal or vegetable fat to sanitise and deodorise before the next cargo. A solution of 5-10% in fresh water can be used for this purpose, and may be sprayed on and rinsed off by using hot water and high pressure.

Product Storage :

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.

Caution :

- If Swallowed, Refer to medical attention, where possible without delay.
- Rinse hand after use Smart Kleen every time
- Seek medical attention in event of irritation.