



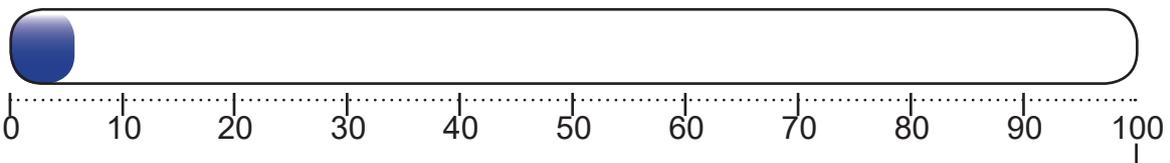
ALKALINE GREEN

720-504x



APPROVED TANK CLEANING ADDITIVE

1-5%
Solution



“Enhance Effectiveness & Efficiency”

REV.1

Description:

CAP Alkaline green is a non-caustic water based alkaline cleaner, containing corrosion inhibitors to prevent the corrosion of metals such as zinc, aluminium, copper, brass and tin. It used to minimises the hazards in handling caustic based materials. It is a powerful cleaner for the cleaning of cargo tanks after discharge of drying, semi-drying and non-drying natural oils and fats. CAP Alkaline green be used for tank sanitising and deodorising prior to changing to foodstuffs. It is suitable to use in any kind including Stainless steel, Zinc silicate coating.

Features and benefits:

- Non-caustic
- Non-flammable
- Not contain nonyl phenol ethoxylates or other estrogenic compounds
- Non-corrosive to ferrous metals
- Suitable for all tank coating
- Can be used for gas and hydrocarbon freeing tanks
- Can be used for deodorizing
- Biodegradable
- Effective and economical

Physical properties:

Appearance	Clear liquid
Relative density (water = 1)	1.07-1.13
pH	13

Application and Use :

Tank cleaning

Immediately after the cargo has been discharged, it is recommended to pre-wash the tanks with hot water. However, for drying or semi-drying oil the tanks should be flushed with cold water to prevent polymerisation and evaporation of the lighter oil fractions; and after 1 cycle slowly start to increase water temperature to increase effectiveness of the prewash. The most economical method of using CAP Alkaline green is by direct injection followed by recirculation washing, using tank cleaning machines. If this method is not possible, use other methods such as recirculation or hand spraying.

Direct injection method

Inject 2-5 % solution of CAP Alkaline green into the washing system. Maintain cleaning temperatures between 60-80 C. Cleaning time is 2-6 hours, followed by thorough rinsing with fresh hot water.

Recirculation method - for tank wash system

CAP Alkaline green is normally prepared in the tank to be cleaned or in the slop tank; and using a closed recirculation mechanical tank washing machine. and using heat exchanger, steam coils or live steam injection to heat.

Depending on the contamination CAP Alkaline green is circulated at 2-5% solution for a minimum period of 2-6 hours at a temperature of 60-80 C. After circulation final rinse thoroughly with fresh water. However, in case the next cargo is of high purity standard final rinse with D.I. water is recommended.

Spray method

Spray the tank surfaces with neat CAP Alkaline green and let the chemical to reaction for at least 30 min. Then rinse tank surfaces with hot water for 1 or 2 cycles (approx. 30 - 45 min.)

Dosage:

Cargo Residue	Direct Injection method	Recirculation method	S p r a y method	*Approx. recirculation consumption, litres per 1000 m3 tank space
Fatty acids, fatty alcohols Fish oils	2-5%	3-5%	100%	200-350
Drying & Semi drying	2-5%	3-5%	100%	200-350
Vegetable oil	1-3%	2-4%	50-100%	150-300
Non drying vegetable oil	1-3%	2-4%	50-100%	150-300

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

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 CAP Alkaline green every time
- Seek medical attention in event of irritation.