

Product group: **652** Product number: **571521**

Unitor™ Akleen Safety™ 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.



## Product information

This product supersedes product no: **602862**

Unitor™ Akleen SafetyLiquid™ minimises the hazards in handling caustic based materials.

### Features

- Non-caustic
- Non-flammable
- Does not contain nonyl phenol ethoxylates or other estrogenic compounds
- IMO approved and listed in Annex 10 of the MEPC.2/ Circular

### Benefits

- Non-corrosive to ferrous metals
- Suitable for all tank-coatings
- Can be used for gas and hydrocarbon-freeing of tanks
- Can be used for deodorizing

## Specification

### General

Invent Hazard Material (IMO/EU) classification	C-49
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### Physical properties

Appearance	Clear Colorless
Density [g/ml]	1,06 - 1,08
Form	Liquid
pH	13

### Technical data

<b>Not Compatible</b>	The concentrated product may react with aluminium zinc, tin and their alloys.
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## Approvals

Unitor™ Akleen SafetyLiquid™ has been evaluated by the BLG Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals (ESPH) and found to meet the requirements of paragraph 13.5.2 of the MARPOL Annex II and is consolidated into annex 10 of the MEPC.2/Circular.

## Documents

[SDoC and MD for IHM](#)

## Directions for use

Cargo tank cleaning following discharge of drying, semi-drying and non drying natural oils and fats.

As soon as possible after the cargo has been discharged, the tanks should be flushed with cold water to prevent polymerisation and evaporation of the lighter oil fractions.

Whenever possible, the cleaning solution should be heated to 60-80°C. However, the polymerising nature of some natural oils may demand lower cleaning temperatures.

**Dosing method** The most economical method of using Unitor™ Akleen SafetyLiquid™ is by direct injection followed by recirculation washing, using tank cleaning machines. If this method is not possible, hand spraying provides acceptable options. Refer to dosage table for dosage rates.

Cargo Residue	Hand Spray	Recirculation	Direct Injection	*Approx. recirculation consumption, litres per 1000 m3 tank space
Fatty acids, fatty alcohols Fish oils	100%	3-5%	2-4%	180-300
Drying & Semi drying	100%	3-5%	2-4%	180-300
Vegetable oil	50-100%	2-4%	1-3%	120-240
Non drying vegetable oil	50-100%	2-4%	1-3%	120-240

\*When using the recirculation method, the tank to be cleaned is filled with water to a level that the heating coils are covered. As an average, this is approximately 0.6% of the volume of the tank. The figures mentioned in this column are the quantity of Unitor™ Akleen SafetyLiquid™ required to obtain the recommended solution strengths.

## Related products

Is frequently bought together with

**575613**  
AQUABREAK PX 25 LTR

**571679**  
METAL BRITE HD 25 LTR

**756255**  
ALKLEEN LIQUID 210 LTR

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