

ALKLEEN BUFFERED**DRY GRANULATED ALKALINE CLEANER****DESCRIPTION**

ALKLEEN BUFFERED is a 100% active dry synergistic blend of detergent silicates with wetting and dispersing agents formulated to provide the marine industry with a powerful detergent tank cleaner at the lowest possible cost. It is readily soluble in fresh or sea water safe to handle, Non-toxic and Non-corrosive to normal materials of construction.

USES

ALKLEEN BUFFERED has an excellent deodorizing and sanitizing effect and is suitable for use on most tank coatings with the exception of those based on zinc silicate. It is an ideal heavy duty detergent for such purposes as deck scrubbing, washing topsides and superstructures, cleaning reefer spaces, holds, engine rooms etc. *ALKLEEN BUFFERED* may also be used as a safe neutralising agent after acid cleaning operations.

PRODUCT RESIDUES WHICH MAY BE CLEANED WITH ALKLEEN BUFFERED INCLUDE:-

<i>Castor oil</i>	<i>Hydrogenated vegetable oils</i>	<i>Diethanolamine</i>
<i>Coconut oil</i>	<i>Linseed oil</i>	<i>Ester gum</i>
<i>Corn oil</i>	<i>Neatsfoot oil</i>	<i>Glycerine</i>
<i>Cottonseed oil</i>	<i>Oiticica oil</i>	<i>Hydrocarbon film</i>
<i>Fish oils</i>	<i>Olive oil</i>	<i>Light petroleum residue</i>
<i>Gloss oil</i>	<i>Palm kernal oil</i>	<i>Plasticizers</i>
<i>Hydrogenated cottonseed oil</i>	<i>Rapeseed oil</i>	<i>Synthetic resins</i>
<i>Hydrogenated soya oil</i>	<i>Soya oil</i>	<i>Sperm oil</i>
<i>Tallow</i>	<i>Tung oil</i>	

(NOTE) Hydrogenated oils contain stearic acid which melts at approximately 700C. The temperature in tanks in which these oils have been carried would have to be maintained at 710C to 770'C for successful cleaning.

METHOD OF APPLICATION

ALKLEEN BUFFERED is used as a solution made up in fresh seawater. The efficient operating temperature range is from 650C to boiling point. The optimum however, may be considered to be 800C.

ALKLEEN BUFFERED can be used in solution form for direct injection cleaning but is best employed using the recirculation method.

The calculated quantity of product may be dumped into the tank containing half the required quantity of very hot water. Agitation with a water hose may then be used to complete the dissolution and make up the volume prior to commencement of the cleaning operations.

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**GUIDE TO SOLUTION STRENGTHS AND CHEMICAL CONSUMPTION FOR CLEANING
VARIOUS CARGOES.**

CARGO RESIDUES	ALKLEEN BUFFERED Solution strength	Chemical Consumption per 1000 cubic metres of tank space
Fatty acids, alcohol, tallows and fish oils	2 - 3%	200 Kg
Drying and semi-drying vegetables oils	2 - 3%	200 Kg
Non-drying vegetable oils	1 - 2%	100 Kg
Petrochemicals and light hydrocarbons	1%	75 Kg
Hydrocarbons film removal and deodorising	½%	50 Kg

(NOTE) These consumption figures relate to multi-tank cleaning where the chemical is re-used. If only one tank is to be cleaned, the chemical consumption will be proportionately greater as a result of filling the recirculation system.

SAFETY AND HANDLING

ALKLEEN BUFFERED is an alkaline material, which can irritate or sensitize the skin. Care should be taken to prevent continuous or repeated skin contact especially with concentrated solutions. Avoid contact with the eyes. Do not take internally. Avoid breathing dust. Contaminated clothing should be washed before re-use. Wash thoroughly after handling.

FIRST AID

INGESTION: Wash out mouth with water then drink plenty of water. Obtain medical attention.

SKIN CONTACT: Where skin irritation has occurred. Wash thoroughly with fresh water and apply an emollient type skin cream.

EYE CONTACT: Flush thoroughly with copious amounts of fresh water. Obtain medical attention.

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