

ALOHA SWING PLUS

- **ALOHA SWING PLUS** is a tank cleaner and detergent for the inside and outside of containers, and was developed to clean easily with rapid efficiency in factory workplaces. It is the world's first special product developed to wash in a short time the floors (veneer board, plastic, steel, aluminum) of containers stained with oil, and is used to wash off heavy crude oil, carbide, animal and vegetable oil fatty acids and oil stains on vessel cargo tanks (NLS TANK).
- It is also a multipurpose detergent for old oil stains on concrete floors, ceilings, windows, etc. This product does not contain toxic chloride, abrasives, phosphate, or silicate and is eco-friendly, nonflammable and superior not only in anticorrosive and antirust effects, but also in biodegradability by micro bacteria.

1. Features and Merits

- A. Excellent restraint of bacteria breeding and repeat pollution by sterilization
- B. Does not contain petroleum or chlorine
- C. Stability on veneer board, all metals, plastic, rubber
- D. Effective application on wide stains
- E. Effective anticorrosive and antirust on nonferrous metals
- F. Excellent biodegradability
- G. Improvement in workplace from low irritation and toxicity
- H. Extensive dilution ratio (highly concentrated liquid)
- I. Prevents repeat pollution
- J. Stability in light, soft water, seawater
- K. Improvement of workplace with water solubility
- L. Stability in heat (nonflammable)
- M. Special handling and storage is unnecessary
- N. Strong deodorization and disinfection effects
- O. Usage in cargo tanks and engine rooms for vessel cleaning
- P. Does not contain potassium hydroxide or sodium hydroxide
- Q. Does not remain on surfaces and does not contain powder component
- R. Does not contain phosphate

2. Physical and chemical properties

Appearance (original liquid)

Colorless transparent liquid

Specific Gravity (water = 1)	1.01
pH (original liquid)	8.0-9.0
Solubility (menstruum = water)	Completely solubility in fresh water or sea water
Influence to non-ferrous metals discoloration and corrosion test	No
Influence to rubber & plastic	No
Ignition point (°C)	No
Odor	Orange and mild odor

3. Usage scoup

- A tank cleaner for heavy crude oil, animal and vegetable oil fatty acids, and multipurpose detergent for inside and outside of containers

4. Usage tips and dilution ratio

- A. Direct spray method: Use a high-pressure tank washing machine
- B. Dilution ratio rate: Generally 3-10%, 30-100 L mixing per 1TON for washing water (seawater or fresh water)

5. Usage with high-pressure tank washing machine

- A. Initiate cleaning: Recommend washing inside tank with seawater or fresh water at 50-60°C before using ALOHA SWING
- B. ALOHA SWING PLUS usage tips
 - 1) Put 3-10% original liquid (washing water 1TON: original liquid 30-100 L) into mixture tank
 - 2) And washing water capacity accounts for about 5-10% of the chemical tank so as to increase occurrence of the water current
 - 3) The dilution ratio varies according to the extent of contamination, and it is good to keep the washing water temperature at 50-60°C to get the best effect, and one pail of original liquid can one or two tanks when comparing the extent of contamination
- C. Final cleaning: After cleaning with the chemical, wash with seawater or fresh water before drying

6. Recycling method

- A. Prepare 3-10% ALOHA SWING PLUS solution in a tank near a pump room
- B. Do recycling for one hour at 50-60°C using a tank high-pressure washing machine
- C. Put in sufficient recycling washing water for continuous recycling

7. Hand spray method for inside tank

- A. Keep one meter from washing parts or walls, spray original liquid or dilutions three or four times

- B. Leave on at least 2-20 minutes after spraying
- C. Wash with tank washing machine or high-pressure spray machine
- D. Keep washing water temperature at 30-50°C to get the best effect
- E. Store (slop) washing water in tank to continuously strip during washing

8. Immersion washing method

- Use original liquid that was severely polluted, and wash with dilution liquid after dipping for at least 10-30 minutes in 1-20% dilution in the case of slight pollution, including filter cleaning

9. General cleaning Tips

- A. Container floors: Wash with a 1:5-10 dilution ratio with a high-pressure tank washing machine for 10 minutes to one hour to penetrate the surface when cleaning oil and extremely polluted wood boards or veneer boards, and rinse immediately after washing
- B. Factory floors: Dry with floor cloth or cotton, or wash with water for one to 10 minutes with a 1:10-20 dilution ratio when cleaning oil and old dirty stains that have sunk into the floor
- C. Filter cleaning: Air dry or use floor cloth with cotton, wash with water after 10 minutes with a 1:2-dilution ratio in an empty container (adjust dilution and time according to kind of oil)
- D. Nonmetal: No need for additional rinse except to do painting
- E. Metal parts: Don't rinse tank or wet parts. Not become rusty and corrosive because anticorrosion is implanted on the surface. It may be safe to rinse with water if parts can dry immediately.
- F. Other metal surfaces: It may be safe to rinse with water that rapidly dries on metal surfaces and paint or coatings with other materials. ALOHA SWING erases stains and deposits with an anticorrosive agent
 - ⊙ Be usable to make adjustment workplace to dilute ratio suitably according to the terms above
 - ⊙ Use a soft sponge or brush when washing machinery and facilities, and for best effects use warm water

10. Packaging unit

- A. Drum packing: actual capacity 210.00 L plastic drum package
- B. Pail packing: actual capacity 25.00 L plastic pail package

11. Care in storage and usage by Korea Products Safety Law

- A. Keep out of the reach of children
- B. Don't spray directly in areas with food
- C. Be careful to keep away from children, such as playing with soap bubbles, balloons, etc.
- D. Follow the first aid measures below if swallowed or contact with eyes and skin is made
 - 1) Contact with eyes: Immediately clear the eyes for at least 5 minutes with clean flowing water, if problems continue, consult a doctor

2) Contact with skin: Clean the skin with plenty of water and soap, if problems continue, consult a doctor

3) If swallowed: Wash the mouth out with water and consult a doctor

E. Do not use with sodium hypochlorite or decolorant sodium

F. Use with a sponge or cloth when applying higher than eye level

G. Wear protective equipment with rubber gloves, etc.

H. Do not drink or inhale

I. Close cap after use

J. Do not freeze or leave in sunlight or high temperatures

K. Use only for the stated purpose

L. Use at room temperature for better effects

M. Do not load more than three stages

N. Refer to technical data and MSDS about other information details