

**PRECAUTIONARY STATEMENTS:  
HAZARDOUS TO HUMAN AND DOMESTIC  
ANIMALS. WARNING: KEEP OUT OF REACH  
OF CHILDREN. CAUSES EYE AND SKIN  
IRRITATION. DO NOT GET IN EYES, SKIN OR  
ON CLOTHING. HARMFUL IF SWALLOWED.**

**Directions for Use:**

**General Classification**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Prior to use of Ark Hy San, remove all gross filth and dirt from surfaces to be treated. Prepare proper dilutions as described below and apply solutions using scrub brushes, scrubbing pads and spray systems.

**General Cleaning:**

For heavily soiled areas a pre-cleaning step is required and recommended. Prepare a fresh solution for each use.

**Sink Cleaning - Two Compartment:**

Mix 8 ounces of Ark Hy San with 5 gallons of hot water in the first compartment, (200 ppm). Immerse all utensils that are to be cleaned in the sink. After soaking in the first compartment, sanitize all utensils in the second compartment in a solution of 8 ounces of Ark Hy San with 5 gallons of hot water. Remove all items and allow to air dry.

**Sanitization:**

To sanitize previously cleaned and rinsed non porous food contact surfaces, prepare 200 ppm active quaternary Ark Hy San solution by adding 8 ounces of Ark Hy San to 5 gallons of water. **At this level no potable water rinse is required.**

**To Sanitize Immobile Items (such as tanks, chopping blocks, counter tops):**

Flood the area with 200 ppm Ark Hy San solution or apply with a cloth or sponge, making sure to wet all surfaces completely for at least 60 seconds. Let air dry. Prepare a fresh solution for each use.

# ARK HY-SAN

## Detergent - Disinfectant

Cleaner  
Detergent  
Deodorizer

Sanitizer  
Disinfectant

ACCEPTED  
with COMMENTS  
in EPA Letter dated  
Fungicide (Against  
Pathogenic Fungi)  
Widewstat (on hard  
surfaces)

**Active Ingredients:**

n Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>18</sub>)  
dimethyl benzyl ammonium chlorides  
n Alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>)  
dimethyl ethylbenzyl ammonium chlorides

**Inert Ingredients**

E P A Registration Number 4169-12  
E P A Establishment Number 01674MA07

NOV 23 1983  
0.8  
0.8  
98.4  
Total 100.00%

**KEEP OUT OF REACH OF CHILDREN  
ONLY FOR SALE TO, USE AND STORAGE BY SERVICE PERSONS.**

**WARNING**

**Statement of Practical Treatment**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash all contaminated clothing before re-use. If swallowed, drink milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed. See side panel for additional precautionary statements.

Batch Code No

Net Contents

Manufactured by

Aborn Chemical Industries, Inc. - 92 York Avenue  
Randolph, Mass. 02368 (Tel. 617/986-6161)

Ark Hy-San is a heavy duty cleaner, disinfectant and sanitizer designed for use in food areas, kitchens, schools, motels and hospital applications where heavy duty cleaning is of prime importance.

For larger areas, such as patient care facilities and food processing rooms, the product is designed to provide both heavy duty cleaning and disinfecting. Ark Hy-San is designed to aid in controlling the hazard of cross contamination in areas where heavy duty cleaning is necessary.

**Disinfectant:** When used as directed Ark Hy-San is formulated to clean and disinfect inanimate hard surfaces (such as walls, floors, sink tops, cutting boards, tables, chairs, etc.) At 4.5 ounces per gallon dilution, Ark Hy-San exhibits effective disinfectant activity against the organisms: **Salmonella choleraesuis**, **Staphylococcus aureus**, and **E. coli**. At the level of 4.5 ounces per gallon Ark Hy-San is fungicidal against the pathogenic fungus, **Trichophyton mentagrophytes**.

At 6 ounces per gallon, Ark Hy-San is an effective hospital disinfectant and demonstrates disinfectant activity against **Pseudomonas aeruginosa**.

Efficacy tests have demonstrated that Ark Hy-San is an effective bactericide and fungicide in the presence of organic soil (5% blood soil).

#### **STORAGE AND DISPOSAL**

**PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.**

##### **PESTICIDE DISPOSAL**

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

##### **Container Disposal**

###### **For Metal Containers:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

###### **For Plastic Containers:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by State and local authorities.

ARK HY-SAN  
Disinfectant-Deodorizer-Detergent

Ark Hy-San is a concentrated water-based solution composed of uniquely balanced dual quaternary ammonium chlorides combined with nonionic detergents, water softeners, soil suspending agents and detergent builders. Ark Hy-San cleans and disinfects in one application. At proper use dilutions this product may be used on food handling equipment as a cleaner and sanitizer,

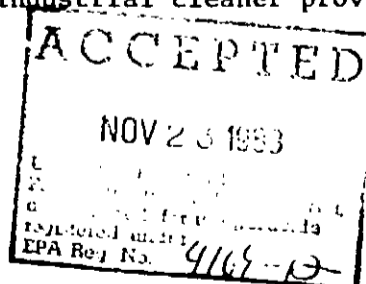
Ark Hy-San is a highly efficient cleaner for all inanimate hard surfaces. It "cuts" and emulsifies fats, greases and oils leaving such surfaces cleaned and disinfected. Ark Hy-San has broad spectrum bactericidal activity and is authorized for hospital and institutional use.

Applications:

1. Meat and poultry processing and handling establishments.
2. Supermarkets and food stores.
3. Transportation industry - food handling.
4. Public transportation.
5. Hospitals and nursing homes.
6. Restaurants.
7. Hotels and motels.
8. Schools and institutions.
9. Public buildings.
10. Veterinary and kennel areas.
11. Dairy industry.

Properties:

1. Ark Hy-San is an Environmental Protection Agency registered product, EPA Registration Number 4169-12 -- EPA Establishment Number 01674MA01.
2. Food handling and food contact equipment do not require potable water rinse after sanitizing with Ark Hy-San.
3. Odors caused by bacterial decomposition are destroyed by Ark Hy-San.
4. Use dilutions of Ark Hy-San are non-corrosive on inanimate surfaces.
5. Ark Hy-San retains its effectiveness as a sanitizer in water of hardness up to 500 ppm as CaCO<sub>3</sub>.
6. Ark Hy-San is a heavy duty industrial cleaner providing rapid cleaning action.



(continued)

7. Ark Hy-San contains:  
8,000 ppm of alkyl dimethyl benzyl ammonium chlorides  
8,000 ppm of alkyl dimethyl ethyl benzyl ammonium chlorides

The above ingredients are combined with a biodegradable nonionic surfactant and detergent additives.

8. Ark Hy-San contains only 2.6% phosphates as  $P_2O_7$ .

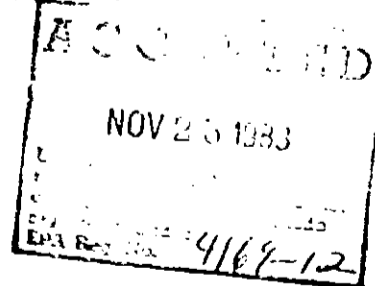
Directions for Use:

Prior to use of Ark Hy-San, all gross filth and dirt must be removed from surfaces to be treated. Solutions, prepared as directed, are applied with scrub brushes, scrubbing pads, wet mops, or by pressure spray method.

- A. General cleaning and deodorizing:  
Use 2 ounces per gallon of water (250 ppm of active quaternaries).
- B. Food equipment-cleaning and sanitizing after cleaning:  
Use 8 ounces per 5 gallons of water (200 ppm of active quaternaries). At this level, no potable water rinse is required.
- C. Sink cleaning - two compartment:  
Mix 8 ounces of Ark Hy-San with 5 gallons of hot water in the first compartment, (200 ppm). Immerse all utensils that are to be cleaned in the sink. After cleaning in the first compartment, sanitize all utensils in the second compartment in a solution of 8 ounces of Ark Hy-San with 5 gallons of hot water making sure to wet all surfaces completely for at least 60 seconds. Remove all items and allow to air dry.
- D. General cleaning and disinfecting:  
Use 4 1/2 ounces per gallon of water (562 ppm of active quaternaries). Wet all surfaces thoroughly for 10 minutes and allow to air dry.
- E. Hospital and institutional cleaning and disinfecting:  
Use 6 ounces per gallon of water (750 ppm of active quaternaries). Wet all surfaces thoroughly for 10 minutes and allow to air dry.

Microbiocidal Activity:

1. Ark Hy-San demonstrated disinfectant activity at 4 1/2 ounces/gallon (562 ppm of active quaternary) against the following: Staphylococcus aureus, ATCC #6538 and Salmonella choleraesuis, ATCC #10708.
2. Ark Hy-San diluted to 6 ounces/gallon (750 ppm of active quaternaries) will demonstrate disinfectant activity against Pseudomonas aeruginosa, ATCC #15442.



(continued)

1. Ark Hy-San has a Primary Skin Irritation Index of 5.58.
2. Ark Hy-San is an eye irritant; care must be taken when handling in accordance with label.
3. Ark Hy-San is harmful or fatal if swallowed. Must be kept out of each of children. Avoid contamination of food.

Other Physical Data:

Specific gravity ----- 1.074 ± 0.004  
 Weight per gallon @ 60° F. ----- 8.96 pounds ± 0.04  
 pH (as sold) ----- 13.0 ± 0.2  
 pH @ 2 ounces/gallon ----- 11.6 ± 0.2  
 pH @ 4 1/2 ounces/gallon ----- 12.0 ± 0.2  
 Color ----- water white  
 Odor ----- none  
 Freeze resistance ----- protect from freezing, will freeze; separates on thaw, mix before using if frozen.

STORAGE AND DISPOSAL:

PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

PESTICIDE DISPOSAL:

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

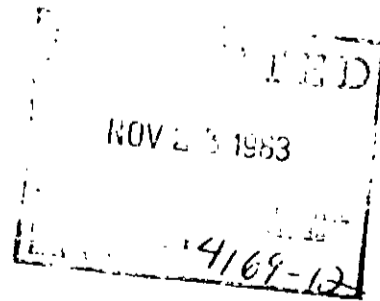
CONTAINER DISPOSAL:

For Metal Containers:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

For Plastic Containers:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by State and local authorities.



23 NOV 1983

Aborn Chemical Industries, Inc.  
168 "A" Street  
Boston, MA 02210

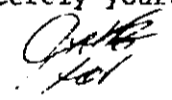
Attention: Jay C. Chapin

Gentlemen:

Subject: Ark Hy-SAN  
LPA Registration No. 4169-12  
Your Application Dated September 25, 1983

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,



John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosure

DIS:DCR-11981:JWL:EF:CBI-01:CBP:RAVEN:10/21/83

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							