

## Technical Data Sheet

**Product Name :** CLEAND-α

**Product Code :** CS1506

### 1. Product Information:

**CleanD-α** is a mixture of anionic and non-ionic surfactant with alkalis (pH>13), stabilizing agents, sequestering agents, non-phosphate detergent builders and chlorine bleaches free, in an aqueous base. It does not contain enzymes, Ethylene diamine tetraacetic acid (EDTA)/ Nitrilotriacetic acid (NTA). It is Biodegradable, Bactericidal, Non-flammable and Phosphate free.

Biodegradable (Ready biodegradability by OECD 301F)

Bactericidal (The test procedure of AOAC Official Method 995.14, 995.15, 964.20 and 995.17; one stop cleaner; AOAC OFFICIAL METHODS OF ANALYSIS 2019). The results were exhibited in the **Table 1**.

**Table 1.** Killing activity of CleanD-α with 4 Test organism.

Test organism	Killing Activity (% Reduction)	
	2%v/v	5%v/v
<i>Pseudomonas aeruginosa</i> ATCC 15442	≥99.9%	≥ 99.9 %
<i>Trichophyton mentagrophytes</i>	73.9 %	79.6 %
<i>Staphylococcus aureus</i> ATCC 6538	99.7 %	99.9 %
<i>Salmonella choleraesuis</i> ATCC 10708	≥ 99.9 %	≥ 99.9 %

**CleanD-α** is surface active cleaning agent, radioactive decontaminant, for laboratory, medical and industrial applications.

**CleanD-α** can be used on glassware, rubbers, most plastics, stainless steel and ferrous metals and not suitable for non-ferrous metals (aluminum and zinc), or on polycarbonate.

### 2. Method of use:

Liquid concentrate, for dilution with water. For manual cleaning, or for use in an ultrasonic cleaning bath.

Prepare a 2% to 5% solution of CleanD-α with deionized water and well mixed together.

Fully immerse the items to be cleaned and soak for 2 to 24 hours, depending upon the degree and tenacity of the soiling.

Problem contaminants can be treated by increasing the solution strength to 10-20%.

Cleaning time can be reduced by heating the solution (40°C to 50°C) or using in an ultrasonic cleaning bath.

The cleaned items must be rinsed thoroughly as soon as they are removed from the cleaning solution, and dried.

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### 3. Specifications:

Items	Descriptions	Specifications
1	Appearance	Clear and transparent liquid
2	Odour	Characteristics
3	pH at 20 °C	>13
4	Specific gravity at 20 °C	1.0200 - 1.0400
5	Viscosity at 20 °C	5.00 - 20.00 cps.

### 4. Chemical Properties:

Appearance	: Form	Clear and transparent liquid
	: Color	Colorless
Odour		Characteristic
Odour Threshold		Not Available
pH		>13.0 at 20°C
Melting point/range		Not Available
Boiling point/range		Not Available
Flash point		Not Available
Evaporation rate		Not Available
Flammability (solid, gas)		Not Available
Explosion limits	: lower	Not Available
	: upper	Not Available
Vapour Pressure		Not Available
Relative vapour density		Not Available
Density		1.020 - 1.040 g/ml at 20°C
Specific Gravity		1.0200 - 1.0400 (water =1) at 20°C
Water solubility		1000 g/l at 25°C
Auto-Ignition temperature		Not Available
Decomposition Temperature		Not Available
Viscosity		5.00 - 20.00 cps. at 20°C
Explosive properties		Not Explosive
Oxidizing properties		The substance or mixture is not classified as oxidizing

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**5. Handling:**

Provision of good ventilation in the working area. The floor must be alkaline-resistant. Do not leave the container open. Avoid spillage. Do not transport together with incompatible substances. Do not breathe spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

**6. Storage:**

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials—requirements for containers, no metal containers.

**7. Personal precautions:**

Evacuate personnel to safe areas. Do not breathe spray mist. Wear a positive-pressure supplied air respirator flame retardant antistatic protective clothing. Shut off leaks without risk. Keep people away from and upwind of spill/leak.

**8. Environmental precautions:**

Contain or absorb leaking liquid with sand or earth; consult an expert. Prevent liquid from entering sewers, basements and workpits. If the substance has entered a watercourse, sewer, or contaminated soil, advise the police.

**9. Shelf life:**

5 years, unopened.