# alec® CHLORSAN


## HIGHLIGHTS

- A concentrated source of chlorine in granular form.
- Kills disease-causing organisms like bacteria and viruses.
- Fast dissolving and provides instant action.
- Destroys contaminants in pool and spa water such as those found in sweat, urine, and windblown debris.
- Long shelf life.
- Very easy to handle and store.

CHLORSAN is a dry form of Chlorine and is readily soluble in water. It is basic in nature and does not lead to lowering of pH caused by other alternatives like Trichloro Isocynurate (TCCA) products. It does not add associated harmful chemicals like cyanuric acid to the water for swimming pool. Owing to this Chlorsan provides much better protection to your concrete, plaster and tiles. reduction.

## PRINCIPAL USES

- Disinfection & Sanitization in Swimming Pool Water.
- Disinfection & Sanitization in Industrial Water Treatment Processes.
- Disinfection & Sanitization in Drinking Water Treatment Processes.
- Disinfection & Sanitization in Sewage Treatment Processes.
- Disinfection & Sanitization in Industrial Waste Water Treatment Processes.
- General cleaning purposes of Toilet & Bathroom Tiles

## MATERIAL COMPATIBILITY

| COMPATIBLE | NOT COMPATIBLE |
|---|---|
| ABS Plastic | Bronze |
| Ceramic | Aluminium |
| Epoxy | Cast Iron |
| Noryl | Nylon |
| Stainless Steel | |
| Titanium | |
| EPDM | |
| Epoxy | |
| LDPE | |
| Polypropylene | |
| uPVC/PVC/CPVC | |

## PHYSICAL & CHEMICAL PROPERTIES

| | |
|---|---|
| Form: | Crystals, granular |
| Colour: | White/grey at room Temperature |
| Odour | Strong Chlorine Odour |
| pH @ 20C: | 11.5 (5% solution) |
| Melting point: | Decomposes at above 150 deg C temperature |
| Flash point: | Not applicable |
| Evaporation rate: | Not applicable |
| Relative vapour density: | Not applicable |
| Water solubility: | 21g/100ml |
| Explosive Properties | Non Explosive |

## DOSAGE AND FEEDING

1. For 1.0 lac litres
For every increase of 0.5 PPM of chlorine use one heap of scoop of Chlorsan. Fill your bucket about ¾ of the way with warm water. Add one heap of scoop of CS 999 (one at a time), to the bucket. Stir it gently until it is completely dissolved. Walk around your pool, pouring the mixture into the water slowly and evenly. For every increase of 0.5 PPM double the quantity of CS 999.

## ENVIRONMENTAL AND TOXICITY DATA

Refer to the product material safety data sheet, SECTIONs 11 and 12 for all human and ecological information.

Chlorsan should be handled as a strong oxidising. Do not get it in eyes, on skin or on clothing. Wear gloves and safety glasses when handling. Do not take it internally.

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THERMALEC® INTERNATIONAL

Our Local Associate

# MAGIC FOR CRYSTAL CLEAR WATER


## Removal of Alage

## Removal of Colloids

## Primary and Secondary Clarification

## Heavy metal removal and Emulsions

Jaadu
Swimming Pool Settler

JAADU is a high active, low molecular weight, liquid settler designed for potable water treatment applications for removal of suspended solids and algae. JAADU can eliminate the need for alum and other inorganic chemical treatments; reduce or eliminate the need for pH adjustment; form a compact, easily settleable floc; and function over a pH range of 5-10.

JAADU is resistant to chlorine and can be used in pre-chlorinated water without a reduction in activity.

## Principal uses

- For crystal clear water in the pool
- Removal of Alage
- Removal of colloids
- Primary and Secondary clarification, municipal and industrial raw water.
- Heavy metal removal and emulsions

## Materials of compatibility

| Compatible | Not Compatible |
|---|---|
| Buna-N | Aluminum |
| Fiberglass (411) | Brass |
| Hypalon | Carbon Steel |
| Neoprene | Copper Alloys |
| Plasite 4005 | Natural Rubber |
| Plasite 6000 | Nickel |
| Plasite 7122 | Stainless Steel 304 |
| Polyethylene | Stainless Steel 316 |
| Polypropylene | |
| Polyurethane | |
| PVC, Teflon, Vinyl | |
| Viton | |

Mild steel and stainless steel are satisfactory for handling dilute (<1%) solutions.

## Physical & chemical properties

| | |
|---|---|
| Form | Liquid |
| Appearance | Clear pale yellow |
| Odor | Odorless |
| Specific Gravity @ 25°C | 1.22-1.26 |
| Density | 1224 – 1260 kg/m3 |
| Solubility in Water | Soluble 100% |
| pH (100%) | 4 |
| Viscosity @ 23°C | 60 centipoise |
| Freeze Point | -6.7°C |
| VOC Percentage | 0.00% |

Note: These physical properties are typical values for this product and are subject to change.

## Dosage and feeding

JAADU dosage is highly dependent upon the application and system. Jar tests are necessary to determine the optimum dosage. Certain case studies on very highly polluted swimming pool water with algae shows a dosage of 1 to 1.5 PPM was very effective in removal of turbidity and enhancing the clarity. Generally, the JAADU dosage is quarter or less than quarter of the alum dosage.

The JAADU feed point in a typical swimming pool or clarification application should be selected to achieve maximum mixing and product dispersion. In general, it can be added directly in the pool and mixed. JAADU generally requires shorter stirring and settling rates.

A 1 % solution should be used for bench testing. It is recommended that the 1 % stock solution should be used within four hours after prepared as changes in coagulation activity and stability occur rapidly with dilutions.

## Environmental and toxicity data

Refer to the product's Material Safety Data Sheet, SECTIONS 11 and 12, for all aquatic and mammalian information.

JAADU should be handled as an acidic material. Do not get in eyes, on skin, or on clothing. Wear gloves or safety glasses when handling. Avoid prolonged or repeated breathing of vapor. Do not take internally.

alec

pH REDucer

# ACID IN POWDER FORM

- MANY TIMES SAFER THAN ANY ACID
- POWERFUL THAN HYDROCHLORIC ACID
- NO FUMES AND NON CORROSIVE
- EASY AND FASTER WAY OF REDUCING THE pH OF WATER
- COSISTENT, CALIBRATED AND CONCENTRATED FORM

1ST TIME IN INDIA


## pH Reducer Granules

pH Reducer is highly active, fast reacting acid substitute designed for swimming pool water pH reduction. pH Reducer can eliminate the need for use of highly fuming and dangerous hydrochloric acid.

pH Reducer when added to swimming pool water is compatible with all forms of chlorine and does not affect the levels of chlorine in the water.

## PRINCIPAL USES

- pH correction in swimming pool
- Alkalinity reducer

## MATERIAL COMPATIBILITY

| COMPATIBLE | NOT COMPATIBLE |
|---|---|
| ABS Plastic | Aluminium |
| Bronze | Brass |
| Carbon Steel | Cast Iron |
| Carbon Graphite | Stainless Steel 304 |
| Ceramic | |
| Copper | |
| EPDM | |
| Epoxy | |
| LDPE | |
| Noryl | |
| PVC | |

## PHYSICAL & CHEMICAL PROPERTIES

| | |
|---|---|
| Form: | Crystals, granular |
| Colour: | White, light yellow |
| Odour | Odourless |
| pH @ 20C: | 1.3 |
| Melting point: | 315 Deg C |
| Flash point: | Not applicable |
| Evaporation rate: | Not known |
| Relative vapour density: | 1.5 kg/mo |
| Water solubility: | 280g/l @ 25C |
| Explosive Properties | Non Explosive |
| Thermal decomposition: | 460C |

## pH Reducer Granules

The ideal pool pH levels are between 7.2 - 7.6, promoting bather comfort, optimum chemical efficiency and protection of pool plant equipment. Test the pH of your pool water if it is above 7.6, use pH reducer to lower it.

## DOSAGE AND FEEDING

PHR 7181 dosage is highly dependent upon the, water pH. application and system. Jar tests are necessary to determine the optimum dosage. Please ask for assistance from the supplier

**only for commercial application

## ENVIRONMENTAL AND TOXICITY DATA

Refer to the product material safety data sheet, SECTIONs 11 and 12 for all human and ecological information.

PH Reducer should be handled as an acidic powder. Do not get it in eyes, on skin or on clothing. Wear gloves and safety glasses when handling. Do not take it internally.

Contact:
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