

# Trichloroisocyanuric acid



## Description

TCCA 90 (ZEELCHEM™ 90) is excellent source of chlorine for the control of bio fouling in swimming pools, industrial water systems and cooling water systems.

TCCA 90 (ZEELCHEM™ 90) has been proved to be a better and more economical alternative to bleaching powder and sodium hypochlorite for all kind of chlorination applications.



## PROPERTIES:

- Chemical Name: Trichloroisocyanuric acid
- Formula:  $C_3O_3N_3Cl_3$
- CAS Number: 87-90-1
- Molecular Weight: 232.4
- Appearance: white powder or granules
- Effective chlorine: >90.0%
- PH (1% soln): 2.7 to 3.3
- Moisture: 0.5% max.
- Solubility at 25 C: 1.2 (gm / 100 gm water)



## Chemistry of ZEELCHEM™ 90:

After hydrolysis in water, **ZEELCHEM™ 90** will be converted to hypochlorous acid (HOCL), which has strong microbial activity. The hydrolysis by-product, cyanuric acid, acts as a stabilizer and prevents conversion of hypochlorous acid into hypochlorite ion (OCL) owing to sunshine and heat, which has low microbial activity.



## Advantages of ZEELCHEM™ 90:

- Cost effective and stable source of chlorine
- Easy to handle, ship, store and apply. Save expensive cost of equipment.
- No white turbidity (as in case of bleaching powder)
- Long duration of sterilizing effect
- Stable in storage – long shelf life.



**ZEEL PRODUCT**





## Applications:

- Disinfection of civil sanitation and water
- Disinfection of swimming pools
- Disinfection of industrial water pretreatments
- Oxidizing microbiocide for cooling water systems
- Bleaching agent for cotton, gunning, chemical fabrics
- Animal husbandry and plant protection
- As anti – shrink agent for woolens and battery materials
- As deodorizer in distilleries
- As preservative in horticulture and aquaculture industries.

## Handling:

Keep the container closed when not in use. Store in cool, dry and well – ventilated area, away from fire and heat. Use dry, clean clothing when handling **ZEELCHEM™ 90** breathing dust, and do not bring in contact with eyes or skin. Wear rubber or plastic gloves and safety glasses.

## Packing:

**ZEELCHEM™ 90** is available in 50 kg HDPE drums



ZEEL PRODUCT





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