

# NISSAN CHEMICAL INDUSTRIES, LTD.

# "NISSAN Chlorinated Isocyanurates"

In the past, inorganic chlorine compounds including sodium hypochlorite, calcium hypochlorite, etc. have been widely used as non-shrinking agent for wool and sanitary disinfectants for swimming pool and septic tanks. In the U.S.A and European countries, Chlorinated isocyanurates have been used for a long time because inorganic compounds have a low stability and form water insoluble substances resulting in water contamination problems.

Nissan Chemical entered into domestic production of chlorinated isocyanurates in 1963 and since then have been working on market development and promotion of the product.

NISSAN Chlorinated isocyanurates have excellent characteristics and advantages compared with conventional inorganic chlorine compounds as indicated below.

- 1. High Available Chlorine content
  - NISSAN TCCA-90: 90% (Trichloroisocyanuric acid)
  - NISSAN DCCNa-60: 62% (Sodium dichloroisocyanurate)
- 2. Low-hygroscopicity and extremely high chemical stability
- 3. Contains no insoluble substances and so dissolves completely
- 4. Very economical disinfectant because they dissolve at appropriate speed. The effect of these compounds vary greatly depending on the application method.







T C C A - 90

D C C Na - 60





### Packing

### Granular Type

- DCCNa-60 : 50 kgs in a fiber drum
- TCCA-90 : 50 kgs in a fiber drum
- TCCA-90 : 20 kgs in a plastic drum
- TCCA-90 : 7 kgs in a plastic drum

### Powder Type

- TCCA-90 : 50 kgs in a fiber drum
  - TCCA-90 : 20 kgs in a plastic drum
- TCCA-90 : 7 kgs in a plastic drum

#### NSF/ANSI-50 / 60

• NSF-50: Health Effects of Pool and Spa Chemicals



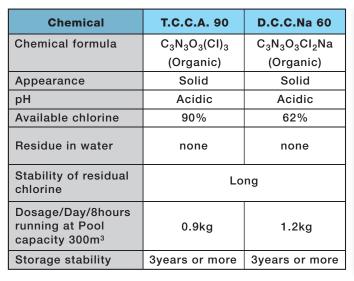
Started from 30 Sep, 2015

Nissan products listed on 24 Aug, 2016 First authorized chemicals in the world

NSF-60 : Heals Effects of Chemicals on Drinking Water



Nissan products listed on 22 Jul, 2016





# **Basic Chemicals**







# **Instruction of Pool Maintenance**

### **Dosage**

T.C.C.A. 90  $3g / 1m^3$  water / day (turnover cycle at 8 hours) D.C.C.Na. 60  $4g / 1m^3$  water / day (turnover cycle at 8 hours)

Pool Size Depth 1.50 meters / Length 20 meters / Width 10 meters

Water Volume  $300 \text{m}^3 (1.5 \times 20 \times 10)$ 

Calculation  $3g (T.C.C.A. 90 / day) \times 300m3 = 900g (T.C.C.A. 90 / day)$ 

4g (D.C.C.Na. 60 / day) x 300m3 = 1,700g (T.C.C.A. 90 / day)

# **Rapid Remedy Of Shortage**

Add the product to adjust chlorine level to the target value, this reference may change depend on the water condition

### **General Maintenance**

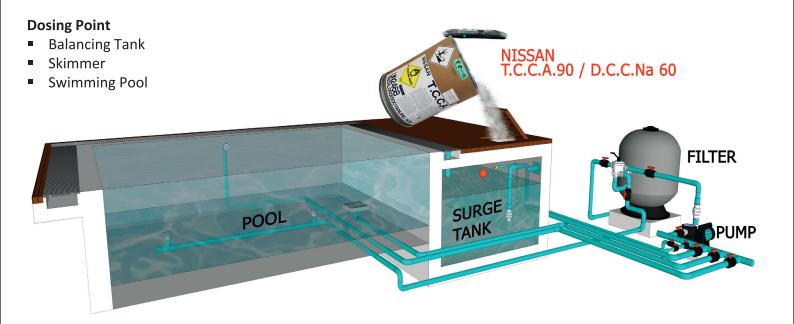
Regular measurement of Chlorine, pH and Total Alkalinity is important.

Chlorine 1.0 to 1.5 ppm pH 7.0 to 7.5
Total Alkalinity 50 to 100 ppm

Pool Volume (M³)	NISSAN T.C.C.A. 90 (grams/day)	NISSAN D.C.C.Na. 60 (grams/day)
50	150	200
100	300	400
200	600	800
300	900	1,200
400	1,200	1,600
500	1,500	2,000
700	2,100	2,800
1,000	3,000	4,000

### **Storage & Handling**

- Do not mix with other chemicals
- Store under cool dry condition and away from water, moisture, any easily oxidizable matters and sources of heat.
- No sweeping or waste should be out into bins, as accidental contamination with easily oxidizable matter could fire.
- Damp or Contaminated material should never be repacked in containers





POOL&SPA Chemicals Co., LTD (Sole Distributor Thailand) 40/2 Soi 37/2 Moo 14 Kingkeaw Road, Rachatawa, Bangplee, Samutprakarn 10540 Tel. 0-2738-5088-99, 0-2175-2561-65 Fax. 0-2738-5299, 0-2738-4209

Website: www.poolspa.co.th Email: sales@poolspa.co.th

Dealer: