

MATERIAL SAFETY DATA SHEET

- **Identification of the substance and of the company.**

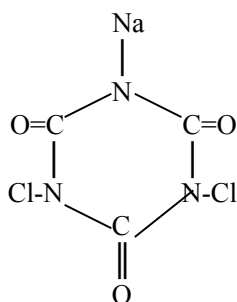
- Identification of the substance or preparation:

NISSAN D.C.C.Na GRANULAR
(Sodium Dichloroisocyanurate Anhydrous / Granular)

- Company Identification: Jinhe enterprise co., limited
- No. 66 Wenhua road, Zhengzhou, China
- Emergency telephone number : 13838516890 Julia
- julia@jinhete.com

- **Composition / Information on ingredients.**

component : sodium dichloro-s-triazine-trione / 100%
molecular formula : $\text{Cl}_2\text{C}_3\text{N}_3\text{O}_3\text{Na}$
structural formula :



cas number : 2893-78-9
eines number : 220-767-7
U.N. number : 2465
IMDG Code : class 5.1, oxidizing agent
Common name/s : sodium dichloroisocyanurate, DCCNa, SDIC

- **Hazards Identification**

On contact with moisture, DCCNa readily decompose to chlorine, hypochlorous acid and cyanuric acid.

Chlorine and hypochlorous acid are known to be toxic to wildlives, especially to fish.

DANGER : Mixing with sodium or calcium hypochlorite will cause explosive generation of nitrogen tichloride.

HARMFUL IF INHALE, INGESTED or EXPOSED to skin or eyes.

- **First aid measures**

Eye contact :

Immediately flush with water for at least 15 minutes. If irritation remains after flushing, call a physician at once.

Skin contact :

Promptly wash thoroughly with water for at least 15 minutes. If clothing is contaminated with DCCNa, remove the clothing immediately and wash it before reuse.

Ingestion :

Immediately drink large amount of water. Do not induce vomiting.
Immediate medical attention is required.

Inhalation :

Remove to fresh air. Call a physician.

- **Fire-fighting measures**

DCCNa is not flammable itself, however, a thermal decomposition will occur at above 240°C. A thermal decomposition can be extinguished by flooding with copious amount of water or by isolating the decomposition material in open air and allow it to be consumed.

DCCNa decomposes into hazardous gases in a fire. Use self-contained breathing apparatus and goggles. Do not approach from leeward.

DCCNa may generate nitrogen trichloride when it is left under damp condition. Do not use dry fire extinguishers containing ammonium compounds.

- **Accidental release measures**

Refer to section 8 for personal protection when handling the spillage of DCCNa. Any spillage of DCCNa should be cleaned up as soon as possible to prevent contamination with foreign materials with which it may react. See section 10 – stability and reactivity. Sweepings or waste material should not be put into bins. Damp or contaminated material should not be repacked in containers.

See section 13 for disposal of spillage.

Do not release unneutralized DCCNa to sewers, watersheds and water systems.

- **Handling and storage**

Do not get into eyes, on skin and on clothing.

Do not breathe dust or fumes.

May be fatal if swallowed.

Use protective equipment recommended in section 8.

Store in a cool, dry and well-ventilated area.

Do not allow water to get into container.

Retie P.E. liner and close container tightly after each use.

Keep away from FIRE, HEAT, FLAME and DIRECT SUN LIGHT.

Keep away from incompatible materials listed in section 10.

Keep out of reach of children and domestic animals.

- **Exposure controls / personal protection**

Respiratory protection :

Avoid breathing dust or vapor. Wear an officially approved respirator equipped with chemical cartridge for protection against chlorine gas and dust.

Ventilation : Use local exhaust ventilation.

Eye protection :

Wear chemical splash goggles, wash eyes with clean water when there is potential eye contact.

Skin protection :

Wear protective gloves and protective clothing to prevent skin contact. Consult glove manufacturer to determine appropriate type of glove for handling DCCNa.

- **Physical and chemical properties**

Appearance	:	white crystalline solid
Odor	:	chlorine smell
pH (1% aqueous solution, 25°C)	:	6.0 – 7.0
Boiling point	:	nil
Melting point	:	approx. 240°C
Flash point	:	not flashing
Flammability	:	not flammable
Autoflammability	:	not autoflammable
Explosive properties	:	not explosive
Oxidizing properties	:	strong oxidizer
Vapor pressure	:	not detective
Solubility - water at 25°C	:	25 g / 100 g

- **Stability and reactivity**

DCCNa may be unstable under conditions below :

DCCNa decomposes at temperature above 240°C forming hazardous gases.

Damp or slightly wet condition should be avoided.

Contact with small quantity of water may result an explosive reaction with the generation trichloride.

Materials to avoid (incompatible materials) :

Organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, sodium hypochlorite, calcium hypochlorite and other oxidizers, acid and alkalis.

- **Toxicological information**

Route of entry : Inhalation, skin contact and ingestion

INHALATION of DCCNa is irritating to the nose, mouth, throat and lung.

INGESTION of DCCNa can cause irritation and / or burns to the gastrointestinal tract.

SKIN and EYE CONTACT with DCCNa can cause severe irritation and / or burns, characterized by redness, swelling and scab formation. May cause impairment of vision and corneal damage.

Toxicological data:

Acute toxicity

Oral LD₅₀ (Mouse) : 1,670 mg / kg.

Eye irritation (Rabbit, 24h) : Corrosive

Skin irritation (Rabbit, 24h) : Corrosive

Chronic toxicity

There are no known or reported effects from repeated exposure.

Carcinogenicity

This chemical is not considered to be carcinogenic by any reference source.

- **Ecological information**

DCCNa is highly toxic to fish. Do not discharge into lakes, ponds, stream or public water unless in accordance with the permit of official regulations.

Aquatic toxicity / Chlorine

1. 24 Hour-LC₅₀, Daphnia Magna 0.076-0.16mg/L

2. 96 Hour-LC₅₀, Fish (Rainbow trout) 0.13-0.29mg/L

- **Disposal considerations**

Disposal should be done in accordance with all official regulations. If material is dry, incineration is recommended. In case disposal is done after melting the material by copious amount of water and neutralizing to a non-oxidizing residue, observe government and local regulations. Unneutralized material should not be disposed.

- **Transport information**

Labels required



Keep container strictly DRY.

Keep away from FIRE, HEAT, FLAME and DIRECT SUN LIGHT.

Keep away from incompatible materials listed in section 10.

Keep out of reach of children and domestic animals.

Spilled materials should not be put into bins.

Spilled materials should not be repacked in containers.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.