# Safety Data Sheet According to Regulation (EC) No 1907/2006

Sodium dichloroisocyanurate, dihydrate

Version 1.2

Issue date: 04/02/2024

Revision date: 04/02/2024 SDS Record Number: CSSS-TCO-010-112687

## Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Sodium dichloroisocyanurate, dihydrate

Not available Additional identification:

CAS# 51580-86-0; EC# 220-767-7 Identification of the product:

613-030-01-7 Index Number: REACH pre-registration No.: Not available

# od.com 1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Disinfectant, water treatment.

#### 1.2.2 Uses advised against:

Not available.

#### 1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

Supplier(Manufacturer): Qingdao Kingnod Group Co.,LTD.

NO.1, XIANGLING ROAD, QINGDAO CITY, SHANDONG CHINA. Address:

kingnodchem@163.com Contact person(E-mail): +86-532-66060752

Telephone: 86-532-66060752 Fax:

## 1.4 Emergency telephone Number:

+86-532-66060752 83875218 (Only available during office hours (9:00a.m.-17:00p.m.)

Available outside office hours? YES NO

## Section 2 Hazards Identification

## 2.1 Classification of the substance/mixture:

## 2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008			
Hazard classes/Hazard categories	Hazard statement		
Acute Tox. 4	H302		
Eye Irrit. 2	H319		
STOT SE 3	H335		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

For full text of H- phrases: see section 2.2.

#### 2.2 label elements:

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**Hazard Pictograms:** 

**Precautionary statement:** 





Signal Word(S): Warning

Hazard Statement: H302: Harmful if swallowed.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell.

P330: Rinse mouth.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P391: Collect spillage.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in according with local regulation.

## 2.3 Other hazards:

Contact with acids liberates toxic gas

## Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Pre-Registration No.	CAS No.	EC No.	Concentration
Sodium dichloroisocyanurate, dihydrate	N/A	51580-86-0	220-767-7	100%

## **Section 4 First aid measures**

#### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

## 4.1.1 In case of inhalation:

If adverse effects occur remove to uncontaminated area. Give artificial respiration of not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support.

#### 4.1.2 In case of skin contact:

Immediately flush contaminated areas with water. Remove contaminated clothing. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. If irritation occurs, get medical help.

#### 4.1.3 In case of eyes contact:

Immediately flush eye with a directed stream of water for at least 15 minutes.

#### 4.1.4 In case of ingestion:

If victim is conscious an alert, allow to rinse mouth and then drink two cups of water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep airway clear. Drink more water when vomiting stops. Seek medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

## Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Powder, carbon dioxide, foam

Unsuitable extinguishing media: Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical

reaction.

5.2 Special hazards arising from the

substance or mixture

5.3 Special fire fighting methods and special protective actions for

fire-fighters:

During heating or in case of fire poisonous gases are produced: nitrogen oxides

(NOx), hydrogen chloride (HCI), chlorine.

Fire-fighters should wear full protective clothing and self-contained breathing

apparatus (SCBA).

## Section 6 Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate

exhaust ventilation at places where dust is formed. Keep unnecessary people away,

isolate hazard area and deny entry.

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is 6.1.2 For emergency responders:

generated.

6.2 Environmental Precautions: Do not allow material to be released to the environment without proper

governmental permits. Very toxic to aquatic life with long lasting effects.

6.3 Methods for Containment and Cleaning

up:

DO NOT add water to spilled materials. DO NOT use floor sweeping compounds to clean up spills. Sweep and scoop spilled material into clean, dedicated equipment.

Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal any contaminated drums.

DO NOT transport wet or damp material.

See Section 7 for information on safe handling. 6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information: Not applicable.

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## Section 7 Handling and storage

#### 7.1 Precautions for safe handling:

7.1.1 Protective measures: Do not get in eyes, on skin or on clothing. Avoid breathing vapours when opening

> container. Avoid creation of dust. Wash thoroughly after handling. Never add water to the product. Always add product to large quantities of water. Use clean dry utensils. Do not add the product to any dispensing device containing residuals of

other products.

7.1.2 Advice on general occupational

hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including

any incompatibilities:

Store and handle in accordance with current regulations and standards. Do not allow water to get in container. Keep container tightly closed and properly labelled. Store containers on pallets. Keep away from food, drink and animal feed. Keep

separated from incompatible substances.

7.3 Specific end use(s): Not applicable.

## **Section 8 Exposure Controls/Personal Protection**

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash

and a safety shower. Use adequate ventilation to keep airborne

concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Tightly sealed goggles.

Hand protection:

Type of gloves recommended -Nitrile rubber. Minimum breakthrough time / gloves: 480 min.

Minimum thickness / gloves 0.11 mm.

**Body protection:** Plastic apron, sleeves, boots, if handling large quantities.

Respiratory protection: Use respiratory protection for chlorine and dust inhalation protection.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

## Section 9 Physical and chemical properties

## 9.1 Information on basic physical and chemical properties:

Appearance: Solid

Colour: White (Sodium dichloroisocyanurate)

Odour: Chlorine odor(Sodium dichloroisocyanurate)

**Odour threshold:** Not available Not available pH: Melting point/range (°C): Not available

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Boiling point/range (°C): Not available Flash point (°C): Not available **Evaporation rate:** Not available Flammability limit - lower (%): Not available Non-flammable Flammability (solid, gas): Ignition temperature (°C): Not available Upper/lower flammability/explosive limits: Not available

Vapour pressure (20°C): < 0.006 Pa (Sodium dichloroisocyanurate)

Vapour density: Not available

1.97 (Sodium dichloroisocyanurate) **Relative Density:** 

Bulk density (kg/m<sup>3</sup>): Not available

Water solubility (g/l): 248.2 g/L (PH=4.47, Sodium dichloroisocyanurate)

n-Octanol/Water (log Po/w): Not available Not available **Auto-ignition temperature:** 

252 °C (Sodium dichloroisocyanurate **Decomposition temperature:** 

Viscosity, dynamic (mPa.s): Not available

**Explosive properties:** Product is explosive (Sodium dichloroisocyanurate)

Oxidising properties: Non-oxidising

C3Cl2N3O3.Na.2H2 Molecular Formula:

**Molecular Weight:** 255.98

9.2. Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Surface tension: Not available Dissociation constant in water( pKa): Not available **Oxidation-reduction Potential:** Not available Not available Specific gravity:

## Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.

10.2 Chemical stability: Stable at room temperature in closed containers under normal storage and handling

conditions.

10.3 Possibility of hazardous reactions: Gives off hydrogen by reaction with metals. Contact with acids liberates toxic gas.

10.4 Conditions to avoid: Incompatible materials. High temperature. Poor ventilation. Moisture/high humidity.

10.5 Incompatible materials: Acids, water.

10.6 Hazardous decomposition products: Nitrogen oxides (NOx), hydrogen chloride (HCI), chlorine.

## **Section 11 Toxicological information**

#### 11.1 Toxicokinetics, metabolism and distribution:

Non-human toxikological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

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LD50(Oral, Rat): 1671 mg/kg bw(female), 2094 mg/kg bw(male)

(Sodium dichloroisocyanurate)

LC50(Inhalation, Rat): > 5000 mg/kg bw (Sodium dichloroisocyanurate)

LC50(Inhalation, Rat): 0.27-1.17 mg/L/4h air(Sodium dichloroisocyanurate)

Skin corrosion/Irritation: Non irritant

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified Aspiration hazard: Not classified

## **Section 12 Ecological information**

## **Toxicity:**

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	ØECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential:

Mobility in soil:

Results of PBT&vPvB assessment:

Not available.

Not available.

Other adverse effects: Do not empty into drains.

## Section 13 Disposal considerations

**13.1 Waste treatment methods:**Due to the high risk of contamination recycling/recovery is not recommended.

Waste disposal in accordance with regulations (most probably controlled

incineration).

**13.2 Product / Packaging disposal:** According to local regulations. Emptied container might retain product residues.

Follow all warnings even after the container is emptied.

#### **Section 14 Transport information** Land transport(ADR/RID) Sea transport (IMDG) Air transport (ICAO/IATA) **UN-Number** 3077 3077 3077 Environmentally Environmentally **UN Proper shipping name** Environmentally Hazardous substance, Hazardous substance, Hazardous substance, Solid, n.o.s. (Sodium Solid, n.o.s. (Sodium Solid, n.o.s. (Sodium dichloroisocyanurate, dichloroisocyanurate, dichloroisocyanurate, dihydrate) dihydrate) dihydrate) **Transport hazard Class** 9 9

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Packaging group	III	III	III
Environmental hazards	Yes	Yes	Yes
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC08	IBC08	IBC08

## **Section 15 Regulation information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization:

Relevant information regarding restriction:

Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For

use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO X

## **Section 16 Other information**

#### 16.1 Indication of changes:

Version 1.2 Amended by EU No 453/2010

## 16.2 Training instructions:

Not applicable.

#### 16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### 16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.