

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

Sodium dichloroisocyanurate, dihydrate

Version 1.2

Issue date: 04/02/2016 Revision date: 04/02/2016 SDS Record Number: CSSS-TCO-010-112687

| Section 1 identification of the substance/r            | nixture and of the company/undertaking   |  |  |
|--|--|--|--|
| 1.1 Product identifier:                                |  |  |  |
| Identification on the label/Trade name:                | Sodium dichloroisocyanurate, dihydrate   |  |  |
| Additional identification:                             | CH0040                                   |  |  |
| Identification of the product:                         | CAS# 51580-86-0; EC# 220-767-7           |  |  |
| Index Number:  | 613-030-01-7                             |  |  |
| REACH pre-registration No.:                            | Not available                            |  |  |
| 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 sh      | neet:                                    |  |  |
| Supplier(Only representative):                         | -  |  |  |
| Supplier(Importer):                                    | Wilton Bradley Ltd.                      |  |  |
| Address:   | 8 Wentworth Road, Newton Abbot, TQ12 6TL |  |  |
| Contact person(E-mail):                                | sales@wiltonbradley.co.uk                |  |  |
| Telephone:   | +44 (0)1626 835400                       |  |  |
| Fax:   | +44 (0)1626 836656                       |  |  |
| 1.4 Emergency telephone Number:                        |  |  |  |
| +44 (0)333 301 0644<br>Available outside office hours? | YES NO X                                 |  |  |
|  |  |  |  |

## **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

H302: Harmful if swallowed. **Hazard Statement:** 

> 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.

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#### 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

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

oxides (NOx), hydrogen chloride (HCl), chlorine.

5.3 Special fire fighting methods and special protective actions for

fire-fighters:

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:

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

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.

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

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.

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

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 Not available.

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

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

facility 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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Flash point (°C): Not available

**Evaporation rate:** Not available

Flammability limit - lower (%): Not available

Flammability (solid, gas): Non-flammable

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

Relative Density: 1.97 (Sodium dichloroisocyanurate)

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

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

n-Octanol/Water (log Po/w):

Auto-ignition temperature:

Not available

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

Viscosity, dynamic (mPa.s): Not available

Explosive properties: Product is explosive (Sodium dichloroisocyanurate)

Oxidising properties: Non-oxidising

Molecular Formula: C3Cl2N3O3.Na.2H2O

Molecular Weight: 255.98

9.2. Other information:

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

etc:

Surface tension:Not availableDissociation constant in water( pKa):Not availableOxidation-reduction Potential:Not availableSpecific gravity:Not available

## 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 (HCl), 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)

LD50(Dermal, Rabbit): > 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: Not classified 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 toxicity |     | 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   | OECD 201 | N/A        | N/A     |

Persistence and degradability: Not available. Bioaccumulative potential: Not available. Mobility in soil: Not available. Results of PBT&vPvB assessment: 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). According to local regulations. Emptied container might retain product residues.

13.2 Product / Packaging disposal: 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 307  |   |  |  |  |  |
| UN Proper shipping name          | Environmentally Hazardous substance, Solid, n.o.s. (Sodium dichloroisocyanurate, dihydrate) | Environmentally Hazardous substance, Solid, n.o.s. (Sodium dichloroisocyanurate, dihydrate) | Environmentally Hazardous substance, Solid, n.o.s. (Sodium dichloroisocyanurate, dihydrate) |  |  |  |  |
| Transport hazard Class           | 9   | 9   | 9   |  |  |  |  |

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| Packaging group  | Ш               | ш               | Ш               |  |
|--|-----------------|-----------------|-----------------|--|
| 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<br>Annex II of MARPOL 73/78 and<br>the IBC Code | IBC08           | IBC08           | IBC08           |  |

## **Section 15 Regulation information**

| 15.1 | Safety | . health and | l environmental | regulations/le | aislation s | pecific for | the substance | or mixture: |
|------|--------|--------------|-----------------|----------------|-------------|-------------|---------------|-------------|
|      |        |              |                 |                |             |             |               |             |

**Relevant information regarding authorization:**Not applicable.
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.

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