

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH) (COMMISSION REGULATION (EU) 2015/830)

Version 1

Issue Date 03-Mar-2019

Product Name Sodium Dichloroisocyanurate Dihydrate

Revision date 03-Mar-2019

## SECTION 1: Identification of the substance /mixture and of the company/undertaking

### 1.1. Product identifier

Product Name	Sodium Dichloroisocyanurate Dihydrate
CAS No	51580-86-0
Another name	Sodium dichloro-s-triazinetrihydrate, Dichlor dihydrate, 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1, 3-dichloro sodium salt dihydrate, Triclosene sodium dihydrate, SDCC dihydrate, NaDCC dihydrate, Dichloroisocyanuric acid sodium salt.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Algaecide, Disinfectant, Sanitizer, Bactericide, Fungicide, Microbiocide/microbiostat
Uses advised against	No information available

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

Supplier	SCP UNITED KINGDOM
Address	1 Church Heath, Crawley West Sussex, RH11 0PQ
Phone	+44 1293 546126

### 1.4. Emergency telephone number

0700 4688827

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4	- (H302)
Serious eye damage/eye irritation	Category 2	- (H319)
Specific target organ toxicity (single exposure)	Category 3	- (H335)
Acute aquatic toxicity	Category 1	- (H400)
Chronic aquatic toxicity	Category 1	- (H410)

### 2.2. Label elements

Symbols/Pictograms



Signal word  
Hazard Statements

Warning  
H302 - Harmful if swallowed  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation.  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P271 - Use only outdoors or in a well-ventilated area  
 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 if you feel unwell  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements EUH031: Contact with acids liberates toxic gas.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium dichloroisocyanurate dihydrate	-	51580-86-0	98-100	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) (EUH031) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Others	-	-	0-2	Not classified

**SECTION 4: First aid measures****4.1. Description of first aid measures****General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Substance is incombustible. Select fire fighting measures

according to the surrounding conditions.

In case of ambient fire:

Cool surrounding containers with water spray.

If possible, take container out of dangerous zone.

Contain vapours with water spray.

Do not allow runoff to get into the sewage system.

No information available.

### Unsuitable extinguishing media

### 5.2. Special hazards arising from the substance or mixture

In the case of inclusion in an ambient fire hazardous substances can be released.

Nitrous gases (nitric oxides)

Hydrogen chloride

### 5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## SECTION 6: Accidental release measures

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

Wear respiratory protection, eye protection, hand protection and body protection (see chapter Personal Protection). Carefully sweep up, gather and remove. Avoid rising dust. Afterwards ventilate area and wash spill site.

### 6.2. Environmental precautions

Severe hazard to waters. Avoid penetration into water, drainage, sewer, or the ground. Inform the responsible authorities about penetration of even small quantities.

### 6.3. Methods and material for containment and cleaning up

Carefully sweep up, gather and remove. Avoid rising dust. Place in container for disposal according to local / national regulations (see Section 13).

### 6.4. Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Provision of good ventilation in the working area. The floor should not have a floor drain. Washing facility at the workplace required. Eye bath required. These locations must be signposted clearly. Use closed apparatus if possible. If release of the substance cannot be prevented, then it should be suctioned off at the point of exit. Consider emission limit values, a purification of waste gases if necessary. Label containers and pipelines clearly. Take care to maintain clean working place. Do not leave container open. Avoid contact with acids. Sufficient ventilation must be guaranteed for refilling, transfer, or open use. Fill only into labelled container. Avoid spillage. Avoid rising dust. Use an appropriate exterior vessel when transporting in fragile containers. Use protective equipment while cleaning if necessary. Dust formation that cannot be avoided must be collected regularly. Use a tested industrial vacuum cleaner or suction device. Alternative: clean damp. Only conduct maintenance and other work on or in the vessel or closed spaces after obtaining written permission.

### 7.2. Conditions for safe storage, including any incompatibilities

Do not use any food containers - risk of mistake. Containers have to be labelled clearly and permanently. Store in the original container as much as possible. Keep container tightly closed. Recommended storage at room temperature. Store in a dry place. Store apart from sources of ignition and heat. The regulations provided in the second regulation to the "Sprengstoffgesetz" for other potentially explosive substances must be observed when storing the substance.

**7.3. Specific end use(s)**

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

**8.2. Exposure controls****Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/face protection

Sufficient eye protection must be worn. Wear glasses with side protection.

Hand Protection

The use of resistant protective gloves is recommended. Skin protection cremes do not protect as effectively against the substance as protective gloves. Therefore suitable protective gloves should be preferred as far as possible. Currently there is no information available regarding suitable glove materials. Experience says that polychloroprene, nitrile rubber, butyl rubber, fluoro-caoutchouc, and polyvinyl chloride are suitable as glove materials for protection against un-dissolved solids.

Skin and body protection

Wear an apron or a lab coat.

Respiratory protection

In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear. Respiratory protection: Particle filter P2 or P3, colour code white. Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.

**Environmental exposure controls**

Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Solid, Crystals, Granules
<b>Color</b>	White
<b>Odor</b>	White
<b>Odor Threshold</b>	Not determined
<b>pH</b>	6-7(20°C)
<b>SOLUBILITY IN WATER</b>	ca. 250 g/l(25°C)
<b>Melting point/freezing point</b>	Not determined
<b>Boiling point / boiling range</b>	Not determined
<b>Flash point</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Explosive limits</b>	Not determined
<b>Flammability Limit in Air</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Relative density</b>	Not determined

<b>Partition coefficient (LogPow)</b>	Not determined
<b>Autoignition temperature</b>	Not determined
<b>Decomposition temperature</b>	> 240 °C
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic viscosity</b>	Not determined
<b>Explosive properties</b>	Not an explosive
<b>Oxidizing properties</b>	Not determined

**9.2. Other information**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Heat, flames and sparks.

**10.5. Incompatible materials**

Acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

No data available.

**Skin corrosion/irritation**

Non-irritating to the skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation

**Sensitization**

No sensitization responses were observed.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available

**Reproductive toxicity**

No information available.

**STOT - single exposure**

May cause respiratory irritation.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Sodium dichloroisocyanurate dihydrate (CAS #: 51580-86-0)	-	0,355 mg/l LC50 Fish (96 hours)	0,28 mg/l, EC50 Crustaceans (48 hours)

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14: Transport information**

<b>14.1. UN number</b>	3077
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>14.3. Transport hazard class(es)</b>	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Marine pollutant
<b>14.6. Special precautions for user</b>	No information available
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Does not apply

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**International Inventories**

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Sodium dichloroisocyanurate dihydrate 51580-86-0	-	-	-	X	-	X	X

"-" Not Listed

"X" Listed

**15.2. Chemical safety assessment**

No information available.

**SECTION 16: Other information**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 03-Mar-2016  
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**Revision Note** Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH031 - Contact with acids liberates toxic gas

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----

