



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.01.2013

Revision: 03.01.2013

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

Product identifier

- Trade name: Chlorin S Granulat
- CAS Number :
51580-86-0
- EINECS Number:
220-767-7
- Index number:
613-030-01-7
- Relevant identified uses of the substance or mixture and uses advised against not determined.
- Application of the substance / the preparation Water treatment
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Special Water Europe BV
Plesmanstraat 50
NL 3905 KZ Veenendall

- Further information obtainable
from: Product safety
Tel.: +31 (0) 318 52 53 11

Emergency telephone number:
Tel.: +31 (0) 318 52 53 11

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37: Irritating to eyes and respiratory system.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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R31: Contact with acids liberates toxic gas.

·Label elements

·Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

·Hazard pictograms



GHS07 GHS09

·Signal word Warning

·Hazard statements

H302+EUH031 Harmful if swallowed. Contact with acids liberates toxic gas.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

·Precautionary statements

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

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container to ...

·Other hazards

·Results of PBT and vPvB assessment

·PBT: Not applicable.

·vPvB: Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

51580-86-0 1,3- Dichlor-triazin-2,4-trion sodium salt dihydrate

· Identification number(s) -

· EINECS Number: 220-767-7

· Index number: 613-030-01-7

· Dangerous components:

| | | |
|-------------------|--|-------|
| CAS: 51580-86-0 | 1,3- Dichlor-triazin-2,4-trion sodium salt dihydrate | > 90% |
| EINECS: 220-767-7 | Xn R22; Xi R36/37; N R50/53 R31 Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335 | |

4 First aid measures

· Description of first aid measures

· General information:

Remove contaminated, soaked clothing immediately and dispose of safely.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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- If skin irritation continues, consult a doctor.*
- *After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.*
- *After swallowing: Call for a doctor immediately.*

5 Firefighting measures

- *Extinguishing media*
- *Suitable extinguishing agents:*
Carbon dioxide
Sand
Fire-extinguishing powder
- *For safety reasons unsuitable extinguishing agents: Water*
- *Special hazards arising from the substance or mixture In case of combustion evolution of dangerous gases possible. In case of fire, the following can be released:*
Hydrogen chloride (HCl)
- *Advice for firefighters*
- *Protective equipment:*
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures*
Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective clothing.
Keep people at a distance and stay on the windward side.
- *Environmental precautions: Do not allow to enter sewers/ surface or ground water.*
- *Methods and material for containment and cleaning*
up: Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose of the material collected according to regulations.
- *Reference to other sections*
See Section 13 for disposal information.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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7 Handling and storage

- *Handling:*
- *Precautions for safe handling*
Prevent formation of dust. Avoid contact with skin, eyes and clothing.
- *Information about fire - and explosion protection: Keep respiratory protective device available.*
- *Conditions for safe storage, including any incompatibilities*
- *Storage:*
- *Requirements to be met by storerooms and receptacles: Unsuitable material for receptacle: zinc*
- *Information about storage in one common storage facility: Do not store together with acids. Do not store together with alkalis (caustic solutions).*
- *Further information about storage conditions:*
Keep container tightly sealed.
Store receptacle in a well ventilated area. Store in a cool place.

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Protect from heat and direct sunlight.

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8 Exposure controls/personal protection

- *Additional information about design of technical facilities: No further data; see item 7.*
- *Control parameters*
- *Ingredients with limit values that require monitoring at the workplace: Not required.*
- *Additional information: The lists valid during the making were used as basis.*
- *Exposure controls*
- *Personal protective equipment:*
- *General protective and hygienic measures:*
Avoid close or long term contact with the skin. Avoid contact with the eyes.
Storing food in the working area is prohibited.
Wash hands before breaks and at the end of work.
- *Respiratory protection:*
Short term filter device:
Filter A/P3
Self-contained respiratory protective device.
- *Protection of hands:*



Protective gloves

- *Material of gloves Natural rubber,*
NR Recommended thickness of the
material: approx. 0.7 mm
- *Penetration time of glove material Time for permeation 120 min*
- *Eye protection:*



Tightly sealed goggles

- *Body protection:*
Protective work clothing
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.
The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

9 Physical and chemical properties

- *Information on basic physical and chemical properties*
- *General Information*
- *Appearance:*

| | |
|---------|---------------|
| Form: | Granulate |
| Colour: | colourless |
| Odour: | Like chlorine |

- *Change in condition*
Melting point/Melting range: 250°C
Boiling point/Boiling range: not determined

- *Flash point:* Not applicable.

- *Flammability (solid, gaseous): Product is not flammable.*

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| | |
|---|---|
| · Ignition temperature: | 250°C |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Density: | Not determined. |
| · Solubility in / Miscibility with water at 25°C: | 250 g/l |
| · Solids content: | 100 % |

* **10 Stability and reactivity**

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions Reacts with acids releasing chlorine.
- Incompatible materials: Acids
- Hazardous decomposition products: Chlorine Hydrogen chloride (HCl)

* **11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:
Oral LD50 1400 mg/kg (rat)
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: irritant
- Sensitization: No sensitizing effects known.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Ecotoxicological effects:
- Remark: Very toxic for fish
- Additional ecological information:
- General notes:
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system.
Very toxic for aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12 Disposal considerations

- Waste treatment methods
- Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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| |
|--------------------------------|
| Trade name: Chlorin S Granulat |
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Must be specially treated adhering to official regulations.

- *Uncleaned packaging:*
- *Recommendation: Disposal must be made according to official regulations.*

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14 Transport information

- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3077
- **Packaging group:** III
- **Hazard label:** 9
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (dichlorisocyanuric acid sodium salt dihydrate)
- **Tunnel restriction code** E
- **Inland shipping ADN/ADNR:**
- **ADN/R Class:** 9
- **UN-Number:** 3077
- **Maritime transport IMDG:**

- **IMDG Class:** 9
- **UN Number:** 3077
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes (P)
- Symbol (fish and tree)
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (dichlorisocyanuric acid sodium salt dihydrate)
- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3077
- **Label** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dichlorisocyanuric acid sodium salt dihydrate)
- **UN "Model Regulation":** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
- **Special precautions for user Warning:** Miscellaneous dangerous substances and articles.

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15 Regulatory information

- *Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant phrases**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R36/37 Irritating to eyes and respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **Department issuing MSDS: Product safety**

• **Contact: Dr. Müller**

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

• **Sources Literature value**

• *** Data compared to the previous version altered.**