

**Chlorine stabiliser granules**

Version number: GHS 5.0 (2020-11-11)

Replaces version: GHS 4 (2020-07-07)

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Trade name                      | <b>Chlorine stabiliser granules</b> |
| Identification of the substance | Cyanuric acid                       |
| CAS number                      | 108-80-5                            |
| Registration number (REACH)     | 01-2119480421-45-xxxx               |
| SDS-Ref                         | 07556                               |

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

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Relevant identified uses | Water treatment chemical<br>Professional use<br>Consumer use (private households) |
|--------------------------|-----------------------------------------------------------------------------------|

**1.3 Details of the supplier of the safety data sheet**

Steinbach International GmbH  
L. Steinbach Platz 1  
4311 Schwertberg  
Austria  
Telephone: +43 7262 61431  
e-Mail: info@steinbach-group.com  
e-Mail (competent person): sdb@steinbach-group.com

**1.4 Emergency telephone number**

| Country        | Name                                 | Postal code/city | Telephone            | Opening hours |
|----------------|--------------------------------------|------------------|----------------------|---------------|
| Austria        | Vergiftungsinformationszentrale      | 1090 Wien        | +43 1 406 4343 (24h) |               |
| United Kingdom | National Poisons Information Service |                  | 111 (24h)            |               |

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

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

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Not required.

**2.3 Other hazards**

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

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

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

##### Unsuitable extinguishing media

Water jet

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

Deposited combustible dust has considerable explosion potential.

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Remove persons to safety. Ventilate affected area.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

## 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation  
Use only in well-ventilated areas. Use local and general ventilation.
- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres  
Removal of dust deposits.

Control of effects

- Protect against external exposure, such as  
High temperatures, Frost, Humidity, UV-radiation/sunlight
- Ventilation requirements  
Use local and general ventilation.

Packaging compatibilities

Professional use: Keep only in the original container. Consumer use (private households): Keep only in original container.

Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

## 7.3 Specific end use(s)

There is no additional information.

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## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source      |
|---------|---------------|--------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-------------|
| GB      | dust          |        | WEL        |           | 10                       |            |                           |                 |                                | i        | EH40 / 2005 |
| GB      | dust          |        | WEL        |           | 4                        |            |                           |                 |                                | r        | EH40 / 2005 |

## Notation

|           |                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur                                                                                                     |
| i         | inhalable fraction                                                                                                                                                       |
| r         | respirable fraction                                                                                                                                                      |
| STEL      | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)                   |
| TWA       | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

## Human health values

## Relevant DNELs and other threshold levels

| Endpoint | Threshold level         | Protection goal, route of exposure | Used in                       | Exposure time              |
|----------|-------------------------|------------------------------------|-------------------------------|----------------------------|
| DNEL     | 21.72 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| DNEL     | 30.8 mg/kg bw/day       | human, dermal                      | worker (industry)             | chronic - systemic effects |
| DNEL     | 5.36 mg/m <sup>3</sup>  | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| DNEL     | 15.4 mg/kg bw/day       | human, dermal                      | consumer (private households) | chronic - systemic effects |
| DNEL     | 1.54 mg/kg bw/day       | human, oral                        | consumer (private households) | chronic - systemic effects |

## Environmental values

## Relevant PNECs and other threshold levels

| Endpoint | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|----------|-----------------|-----------------------|------------------------------|------------------------------|
| PNEC     | 12.1 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC     | 1.52 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC     | 204.1 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC     | 7.56 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC     | 0.756 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |

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**8.2 Exposure controls (professional use)**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

- Hand protection

Wear protective gloves.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143)

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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

|                |           |
|----------------|-----------|
| Physical state | solid     |
| Colour         | various   |
| Odour          | odourless |

Other safety parameters

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| pH (value)                              | 3.8 – 4 (water: 2 g/l, 20 °C)                             |
| Melting point/freezing point            | not determined                                            |
| Initial boiling point and boiling range | not determined                                            |
| Flash point                             | not applicable                                            |
| Evaporation rate                        | not determined                                            |
| Flammability (solid, gas)               | this material is combustible, but will not ignite readily |
| Explosion limits of dust clouds         | not determined                                            |
| Vapour pressure                         | not determined                                            |
| Density                                 | 1.75 g/cm <sup>3</sup> at 25 °C                           |
| Vapour density                          | this information is not available                         |
| Auto-ignition temperature               | not determined                                            |
| Decomposition temperature               | 360 °C                                                    |
| Viscosity                               | not relevant (solid matter)                               |
| Explosive properties                    | none                                                      |

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|                                       |                |
|---------------------------------------|----------------|
| Oxidising properties                  | none           |
| Solubility(ies)                       |                |
| - Water solubility                    | 2 g/l at 20 °C |
| Partition coefficient                 |                |
| - n-Octanol/water (log KOW)           | -1.31 (25 °C)  |
| - Soil organic carbon/water (log KOC) | 1.708          |

**9.2 Other information**

There is no additional information.

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

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

**10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

**10.5 Incompatible materials**

Oxidisers

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Classification according to GHS (1272/2008/EC, CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

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**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

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

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

n-Octanol/water (log KOW)

-1.31 (25 °C) (ECHA)

**12.4 Mobility in soil**

The Organic Carbon normalised adsorption coefficient

1.708 (ECHA)

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Endocrine disrupting potential

Not listed.

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

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

**Relevant provisions relating to waste**

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

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**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

- 14.1 UN number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned to a packing group
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**  
There is no additional information.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations****Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)**

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR)**

Not subject to ICAO-IATA.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

Not listed.

**List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list**

Not listed.

**Seveso Directive**

| No | Dangerous substance/hazard categories |
|----|---------------------------------------|
|    | not assigned                          |

**Deco-Paint Directive (2004/42/EC)**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

**Directive on industrial emissions (VOCs, 2010/75/EU)**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

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**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

Not listed.

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

Not listed.

**Water Framework Directive (WFD)**

Not listed.

**National inventories**

| Country | Inventory  | Status              |
|---------|------------|---------------------|
| EU      | REACH Reg. | substance is listed |

**Legend**

REACH Reg. REACH registered substances

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information****Indication of changes (revised safety data sheet)**

| Section | Former entry (text/value)                                                                                                                                                                                                                         | Actual entry (text/value)                                                                                                                                                                                                                                       | Safety-relevant |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.3     | Details of the supplier of the safety data sheet:<br>Steinbach International GmbH<br>L. Steinbach Platz 1<br>4311 Schwertberg<br>Austria<br>Telephone: +43 7262 61431<br>e-Mail: info@steinbach.at<br>e-Mail (competent person): sdb@steinbach.at | Details of the supplier of the safety data sheet:<br>Steinbach International GmbH<br>L. Steinbach Platz 1<br>4311 Schwertberg<br>Austria<br>Telephone: +43 7262 61431<br>e-Mail: info@steinbach-group.com<br>e-Mail (competent person): sdb@steinbach-group.com | yes             |
| 8.2     | - Eye/face protection:<br>Use safety goggle with side protection.                                                                                                                                                                                 | - Eye/face protection:<br>Use safety goggle with side protection (EN 166).                                                                                                                                                                                      | yes             |

**Abbreviations and acronyms**

| Abbr.     | Descriptions of used abbreviations                                                                                                                                                                                    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADN       | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR       | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                |
| Ceiling-C | ceiling value                                                                                                                                                                                                         |
| CLP       | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                    |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                            |
| DNEL      | Derived No-Effect Level                                                                                                                                                                                               |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )                                 |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                             |
| IATA      | International Air Transport Association                                                                                                                                                                               |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                                                        |
| ICAO      | International Civil Aviation Organization                                                                                                                                                                             |

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| Abbr.  | Descriptions of used abbreviations                                                                                                                                      |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMDG   | International Maritime Dangerous Goods Code                                                                                                                             |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")                                                                       |
| PBT    | Persistent, Bioaccumulative and Toxic                                                                                                                                   |
| PNEC   | Predicted No-Effect Concentration                                                                                                                                       |
| ppm    | parts per million                                                                                                                                                       |
| REACH  | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                    |
| RID    | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL   | short-term exposure limit                                                                                                                                               |
| SVHC   | Substance of Very High Concern                                                                                                                                          |
| TWA    | time-weighted average                                                                                                                                                   |
| VOC    | Volatile Organic Compounds                                                                                                                                              |
| vPvB   | very Persistent and very Bioaccumulative                                                                                                                                |
| WEL    | workplace exposure limit                                                                                                                                                |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Disclaimer

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