

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.01.2023

Version number 1

Revision: 26.01.2023

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

- **1.1 Product identifier**
- **Trade name:** *Antichlor pearl form*
- **Chemical Identification:** *sodium thiosulfate*
- **Article number:** *16*
- **CAS Number:**  
*10102-17-7*
- **EC number:**  
*231-867-5*
- **Registration number** *01-2119531537-38*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture**  
*Basic material with not specifically defined use.*  
*Reducing agent/ Deoxidiser*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Möller Chemie GmbH & Co. KG*  
*Bürgerkamp 1*  
*D-48565 Steinfurt*  
*Tel.: 02551/9340-0*  
*Fax: 02551/9340-60*
- **Further information obtainable from:** *Product safety department*
- **1.4 Emergency telephone number:**  
*Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240*

### **SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The substance is not classified, according to the CLP regulation.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **2.3 Other hazards**  
*The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.*
- **Results of PBT and vPvB assessment**
- **PBT:**  
*The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).*
- **vPvB:**  
*The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).*

### **SECTION 3: Composition/information on ingredients**

- **3.1 Substances** *Sodium thiosulfate pentahydrate Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>\*5 H<sub>2</sub>O*
- **CAS No. Description**  
*10102-17-7 Sodium Thiosulfate Pentahydrate*

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- **Identification number(s)**
- **EC number:** 231-867-5

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air.  
In case of irritation of the respiratory tract, consult a doctor.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Sulphur dioxide (SO<sub>2</sub>)  
Sodium Oxide (Na<sub>2</sub>O)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Avoid formation of dust.  
Do not breathe dust.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Damp down dust with water spray.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically and rinse off residues with water. Avoid dust formation. Collect in suitable containers and send for recovery or disposal according to point 13.
- **6.4 Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.

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- When dissolving, always add water and stir in the product.*
- **Information about fire - and explosion protection:** *Keep ignition sources away - Do not smoke.*
  - **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** *Store in well closed containers, cool and dry.*
  - **Information about storage in one common storage facility:**  
*Store away from oxidising agents.*  
*Do not store together with acids.*
  - **Further information about storage conditions:**  
*None.*  
*Store in a dry, cool and well-ventilated place.*  
*Protect from heat and direct sunlight.*  
*Recommended storage temperature: < 40°C*
  - **Storage class:** 13
  - **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** *Not required.*
- **DNELs**  
*worker:*  
*Long-term - systemic effects, inhalative: 374 mg/m<sup>3</sup>*  
*Consumer:*  
*Long-term - systemic effects, inhalative: 110 mg/m<sup>3</sup>*  
*Long-term - systemic effects, oral: 14 mg/kg bw/day*
- **PNECs**  
*Fresh water 0.8 mg/l*  
*sea water 0.08 mg/l*  
*Sewage treatment plant (STP) 102.6 mg/l*
- **Additional information:** *The lists valid during the making were used as basis.*
- **8.2 Exposure controls**
- **Appropriate engineering controls** *No further data; see item 7.*
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
*The usual precautionary measures are to be adhered to when handling chemicals.*  
*Do not breathe dust. Avoid dust formation.*
- **Respiratory protection:**  
*In dust formation respiratory protection required.*  
*Filter P2*
- **Hand protection**  
*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*  
*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*  
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves**  
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*  
*natural latex*  
*Acrylonitrile Butadiene Rubber*
- **Penetration time of glove material**  
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

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· **Eye/face protection**

Tightly sealed goggles

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**

|   |  |
|---|--|
| · <b>Colour:</b>  | White  |
| · <b>Odour:</b>   | Odourless  |
| · <b>Odour threshold:</b>   | Not determined.  |
| · <b>Melting point/freezing point:</b>                            | 48 °C  |
| · <b>Boiling point or initial boiling point and boiling range</b> | not determined   |
| · <b>Flammability</b>   | Product is not flammable.                              |
| · <b>Lower and upper explosion limit</b>                          |  |
| · <b>Lower:</b>   | Not determined.  |
| · <b>Upper:</b>   | Not determined.  |
| · <b>Flash point:</b>   | Not applicable; Product is not flammable or explosive. |
| · <b>Decomposition temperature:</b>                               | > 100 °C   |
| · <b>pH (100 g/l) at 20 °C</b>                                    | 6.5-9.5  |
| · <b>Viscosity:</b>   |  |
| · <b>Kinematic viscosity</b>                                      | Not applicable.  |
| · <b>Dynamic:</b>   | Not applicable.  |
| · <b>Solubility</b>   |  |
| · <b>water at 25 °C:</b>  | 764 g/l  |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.  |
| · <b>Vapour pressure:</b>   | Not applicable.  |
| · <b>Density and/or relative density</b>                          |  |
| · <b>Density at 20 °C:</b>  | 1.68 g/cm <sup>3</sup>                                 |
| · <b>Relative density</b>   | Not determined.  |
| · <b>Vapour density</b>   | Not applicable.  |
| · <b>Particle characteristics</b>                                 | See item 3.  |

· **9.2 Other information**

No further relevant information available.

· **Appearance:**· **Form:**

Solid

· **Important information on protection of health and environment, and on safety.**· **Auto-ignition temperature:**

Not determined.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Change in condition**· **Evaporation rate**

Not applicable.

· **Information with regard to physical hazard classes**

|  |      |
|--|------|
| · <b>Explosives</b>                            | Void |
| · <b>Flammable gases</b>                       | Void |
| · <b>Aerosols</b>                              | Void |
| · <b>Oxidising gases</b>                       | Void |
| · <b>Gases under pressure</b>                  | Void |
| · <b>Flammable liquids</b>                     | Void |
| · <b>Flammable solids</b>                      | Void |
| · <b>Self-reactive substances and mixtures</b> | Void |

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|  |      |
|--|------|
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.3 Possibility of hazardous reactions** High temperatures (>100 °C): Spontaneous decomposition.
- **10.4 Conditions to avoid**  
Heat, flames and sparks.  
Water, moisture.
- **10.5 Incompatible materials:**  
Strong oxidizing agents  
Acids.  
halogens  
Nitrites, nitrates.  
peroxides
- **10.6 Hazardous decomposition products:**  
Sulphur dioxide  
Sodium Oxide (Na<sub>2</sub>O)

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
LD50, oral >5,000 mg/kg rat OECD Guideline 401 ECHA  
LC50, inhalative: dust/mist >5.5 mg/l/4h rat OECD Guideline 403 ECHA  
LD50, dermal >2,000 mg/kg rabbit OECD Guideline 402 ECHA
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Low irritation possible - not required for identification.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
(Acute) aquatic toxicity  
EC50/48h: 230 mg/l Daphnia magna ECHA  
EC50/72h >100 mg/l Algae (Pseudokirchneriella subcapitata) OECD Guideline 201 ECHA  
(Chronic) aquatic toxicity

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- NOEC  $\geq$ 316 mg/l zebrafish (*Danio rerio*) OECD Guideline 210 ECHA 34 d  
 NOEC  $>$ 10 mg/l *Daphnia magna* OECD Guideline 211 ECHA 21 d  
 NOEC  $\geq$ 100 mg/l Algae (*Pseudokirchneriella subcapitata*) OECD Guideline 201 ECHA 72 h
- **12.2 Persistence and degradability** Not applicable for inorganic substances
  - **12.3 Bioaccumulative potential** No further relevant information available.
  - **12.4 Mobility in soil** No further relevant information available.
  - **12.5 Results of PBT and vPvB assessment**
  - **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
  - **vPvB:** This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
  - **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
  - **12.7 Other adverse effects** No further relevant information available.
  - **Additional ecological information:**
  - **General notes:**  
 Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
 Disposal according to local regulations.  
 Do not empty into drains.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                       | Void            |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | Void            |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void            |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                          | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b>                       | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.

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

**Department issuing SDS:** Product safety department**Contact:** Mrs. Steyer**Abbreviations and acronyms:**

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

*ICAO: International Civil Aviation Organisation*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised 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)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*