

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2023

Version number 1

Revision: 12.05.2023

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

- **1.1 Product identifier**
- **Trade name:** Sodium tripolyphosphate
- **Chemical Identification:** Pentasodium triphosphate
- **Article number:** 76
- **CAS Number:**
7758-29-4
- **EC number:**
231-838-7
- **Registration number** 01-2119430450-54
- **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**
Intermediate.
Industrial use.
Commercial use
- **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**
- **CAS No. Description**
7758-29-4 Sodium tripolyphosphate
- **Identification number(s)**
- **EC number:** 231-838-7

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· Additional information:

The product is not classified as hazardous and does not contain any hazardous ingredients according to the formulation.

Regulation (EC) No. 648/2004 on detergents / labeling of ingredients:

Phosphates ≥30 %

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: *No special measures required.*

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

· After skin contact: *Rinse with warm water.*

· After eye contact:

Rinse opened eye for several minutes under running water.

If eye irritation persists, consult a specialist.

· 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: *CO₂, powder or water spray. Fight larger fires with water spray.*

· 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:

Phosphorus oxides

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Adapt protective equipment to the surrounding fire.

· Additional information *Cool endangered receptacles with water spray.*

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Knock down dust with water spray.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Take up in suitable containers and send for recovery or disposal in accordance with 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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Prevent formation of dust.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** Not mandatory.
- **Further information about storage conditions:**
Store in dry conditions.
The product is very hygroscopic
Protect from humidity and water.
- **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**
Oral population:
0.75 mg/kg bw/day (acute, systemic effects)
0.75 mg/kg bw/day (Long-term, systemic effects)
Dermal Population:
0.375 mg/kg bw/day (Acute, systemic effects)
0.375 mg/kg bw/day (long-term, systemic effects)
Inhalation Population:
0.66 mg/m³ (Acute, systemic effects)
0.661 mg/m³ (long-term, systemic effects)
Dermal Workers:
0.375 mg/kg bw/day (Acute, systemic effects)
0.375 mg/kg bw/day (long-term, systemic effects)
Inhalation Workers:
0.661 mg/m³ (Acute, systemic effects)
0.661 mg/m³ (Long-term, systemic effects)
- **PNECs**
Fresh water: 0.005 mg/l
Seawater: 0.005 mg/l
Freshwater Sediment: 0.19 mg/kg dw
Soil: 0.14 mg/kg dw
- **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.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
Do not breathe dust. Avoid dust formation.
- **Respiratory protection:**
In dust formation respiratory protection required.
Filter P2

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· 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.**Butyl rubber, BR**Nitrile rubber, NBR***· 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.***· 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****· Physical state***Solid***· Colour:***White***· Odour:***Odourless***· Odour threshold:***Not determined.***· Melting point/freezing point:***622 °C***· Boiling point or initial boiling point and boiling range***not determined***· Flammability***Product is not flammable.***· Lower and upper explosion limit****· Lower:***Not determined.***· Upper:***Not determined.***· Flash point:***Not applicable; Product is not flammable or explosive.***· Decomposition temperature:***Not determined.***· pH (10 g/l) at 20 °C***9 - 10***· Viscosity:****· Kinematic viscosity***Not applicable.***· Dynamic:***Not applicable.***· Solubility****· water at 20 °C:***140 g/l***· Partition coefficient n-octanol/water (log value)***Not determined.***· Vapour pressure at 20 °C:***0.13 hPa***· Density and/or relative density****· Density at 20 °C:***2.55 g/cm³***· Relative density***Not determined.***· Bulk density at 20 °C:***500 - 1150 kg/m³***· Vapour density***Not applicable.***· Particle characteristics***See item 3.***· 9.2 Other information***No further relevant information available.***· Appearance:****· Form:***Powder*

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- **Important information on protection of health and environment, and on safety.**
- **Auto-ignition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Change in condition**
- **Evaporation rate** Not applicable.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Acids.
- **10.6 Hazardous decomposition products:**
Thermal decomposition can produce various substances, the exact composition of which depends on the decomposition conditions.

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:**

Dermal	LD50	>4.640 mg/kg (rab)
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.

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- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
EC 50/48 h > 100 mg / l (large water flea (*Daphnia magna*))
EC 50/96 h 160 mg / l (*Desmodesmus subspicatus* (green algae))
- **12.2 Persistence and degradability**
Anorganic product, is not eliminable from water by means of biological cleaning processes.
- **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:** The product is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** The product is not considered to be persistent or 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.
- **Remark:** Phosphates contribute to eutrophication in stagnant waters.
- **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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN number or ID number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Void |

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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.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **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

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