



# Sodium Tripolyphosphate

## Safety Data Sheet

according to Regulation (EU) 2020/878

Version 3.0 - Revision date: 12/05/2023

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

#### 1.1. Product identifier

Product form	: Substance
Name	: Sodium Tripolyphosphate
IUPAC name	: Pentasodium Triphosphate
EC no	: 231-838-7
CAS No	: 7758-29-4
REACH registration No	: 01-2119430450-54
Formula	: H5O10P3.5Na

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Raw material for household detergents, dishwashing tablets and technic materials industry and building materials (cement, ceramic,...). Use in metal processing and surface treatment, leather processing, textile processing industries, paint manufacturing, coatings, printing inks, sealants, in the treatment of water/wastewater, in drilling fluids, paper manufacturing, chemical industry, food and feed industry, ...

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer/Supplier :

SOCIETE CHIMIQUE ALKIMIA  
11 Rue des Lilas  
1082 TUNIS MAHRAJENE – TUNISIA  
T +216 36 080 100 – F +216 71 787 283  
[Head.office@alkimia.tn](mailto:Head.office@alkimia.tn)

##### Only Representative in Europe :

Chemservice S.A.  
13, Fausermillen  
6689 Mertert  
Luxembourg  
T +352 2707761  
[luxembourg@chemservice-group.com](mailto:luxembourg@chemservice-group.com)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

Signal word (CLP)	: None
Hazard statements (CLP)	: None
Precautionary statements (CLP)	: None

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### 2.3. Other hazards

Endocrine Disruptor Information : The product does not chemicals on the Candidate List of substances of very high concern for autorisation.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type : Mono-constituent  
Substance name : Sodium Tripolyphosphate  
EC no : 231-838-7  
CAS No : 7758-29-4

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Tripolyphosphate	(CAS No) 7758-29-4 (EC no) 231-838-7 (REACH-no) 01-2119430450-54	100	Not classified

Full text of H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention. If possible show this sheet, if not available show packaging or label.  
First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention if you feel unwell.  
First-aid measures after skin contact : Rinse with plenty of water immediately.  
First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).  
First-aid measures after ingestion : Rinse mouth out with water. Give water to drink if victim completely conscious/alert.

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

Symptoms/injuries : No specific effects and/or symptoms are known.

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

No immediate medical care or specific treatment identified.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide (CO2). Water spray.

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

Fire hazard : Not flammable.  
Hazardous decomposition products in case of fire : Phosphorus oxides.

### 5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers.

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

- For containment : Sweep up or vacuum up the product.  
Methods for cleaning up : Wash non-recoverable remainder with large amounts of water.  
Other information : Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid the formation or spread of dust in the atmosphere. No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.  
Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

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

- Storage conditions : Keep container tightly closed. Store in dry, cool, well-ventilated area. Keep away from heat.  
Incompatible materials : None to our knowledge.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Sodium Tripolyphosphate (7758-29-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0,375 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,661 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,375 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,661 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0,375 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,66 mg/m <sup>3</sup>
Acute - systemic effects, oral	0,75 mg/kg bodyweight/day
Long-term - systemic effects, oral	0,75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,661 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,375 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,005 mg/l
PNEC aqua (marine water)	0,005 mg/l
PNEC aqua (intermittent, freshwater)	0,05 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,19 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,14 mg/kg dwt

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Extraction to remove dust at its source. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Hand protection : Protective gloves made of rubber. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier
- Eye protection : Safety glasses. (EN 166)
- Skin and body protection : Wear suitable protective clothing. Safety foot-wear
- Respiratory protection : Wear appropriate mask : Dust mask

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder. Pellet.
Molecular mass	: 399,8652 g/mol
Colour	: White or colored.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 622 °C (Published data)
Freezing point	: Not applicable
Boiling point	: Decomposes
Flash point	: Not applicable (non-flammable solid)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Stable up to 622°C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: 2,55 (21°C +/- 0.5°C) Test method EU A.3
Solubility	: Water: 148 g/l (20°C +/- 0.5°C, pH 4-9) Test method EU A.6
Log Pow	: Not applicable (inorganic substance)
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

#### 9.2. Other information

Other properties : Dissociation constant : pKa : 9.52 - 9.55 (25°C). (equivalent or similar to OECD Guideline 112).

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Hydrolysis in water.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

None under normal conditions.

#### 10.4. Conditions to avoid

Heat. Light (daylight).

#### 10.5. Incompatible materials

None to our knowledge.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Sodium Tripolyphosphate (7758-29-4)	
LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 4640 mg/kg (standard method)
LC50 inhalation rat	> 0,39 mg/l/4h (EPA OPP 81-3)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Not irritating  
(OECD 404 method)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Not irritating  
(OECD 405 method)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Did not cause sensitisation  
(OECD 429 method)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
In vitro and in vivo tests did not reveal any genotoxic potential

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : No carcinogenic effects reported

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Fertility and development toxicity tests did not reveal any effect on reproduction

Specific target organ toxicity (single exposure) : Not classified (Lack of data)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Sodium Tripolyphosphate (7758-29-4)	
NOAEL, oral, rat	225 mg/kg bodyweight/day (2 years)

Aspiration hazard : Not classified (Not applicable)

#### 11.2. Information on other hazard

No specific data available which relates to endocrine disrupting properties.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology – general : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

Sodium Tripolyphosphate (7758-29-4)	
LC50 fish	$\geq$ 1850 mg/l/24h Brachydanio rerio (zebra-fish) (AFNOR T 90 303)
EC50 Daphnia	> 100 mg/l/48h (Daphnia magna) (TSCA guideline: 40 CFR 797.1930)
ErC50 (algae)	160 mg/l 4 days (Scenedesmus subspicatus) (ISO/TC147/SC5/WG5 N84)
ErC50 (other aquatic plants)	> 900 mg/l 7days (Skeletonema costatum) (AFNOR T95E-doc 50F)
LOEC (acute)	5 mg/l/96h (Danio rerio) (equivalent or similar to OECD Guideline 212)

#### 12.2. Persistence and degradability

Sodium Tripolyphosphate (7758-29-4)	
Persistence and degradability	Not applicable (inorganic substance). Abiotic degradation in water : Hydrolyse in pure water : DT50 : ~ 70h at 25°C (equivalent or similar to OECD Guideline 111). Degradation products : orthophosphate (by hydrolysis). Hydrolyse in sediment medium : Half-life : ~2 days.

#### 12.3. Bioaccumulative potential

Sodium Tripolyphosphate (7758-29-4)	
Log Pow	Not applicable (inorganic substance)
Bioaccumulative potential	Low bioaccumulation potential.

#### 12.4. Mobility in soil

Sodium Tripolyphosphate (7758-29-4)	
Log Koc	Koc : 142.44 $\mu$ g/g (20°C)
Ecology – soil	Not volatile.

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### 12.5. Results of PBT and vPvB assessment

#### Sodium Tripolyphosphate (7758-29-4)

Results of PBT assessment	This substance/mixture does not meet the PBT - vPvB criteria of REACH regulation, annex XIII
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### 12.6. Endocrine disrupting properties

No specific data available for this product.

### 12.7. Other adverse effects

Other adverse effects : May cause eutrophication.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### AND

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: Not applicable

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### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium Tripolyphosphate is not on the REACH Candidate List

Sodium Tripolyphosphate is not on the REACH Annex XIV List

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
LD50	Median lethal dose
LC50	Median lethal concentration
DNEL	Derived-No Effect Level
DMEL	Derived Minimal Effect level
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
DT50	Half-life
ECHA	ECHA - European Chemicals Agency
ECr50	Median effective concentration
SDS	Safety Data Sheet
Pow (log)	n-octanol/water partition coefficient
Log Koc	adsorption coefficient
HPLC	High-Performance Liquid Chromatography
LOEC	Lowest Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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Data sources	: SDS of suppliers. CSR (Chemical safety report). ECHA - European Chemical Agency. IUCLID.
Other information	: This safety data sheet has been written in conformity with the Annex II of the Regulation (EC) 1907/2006 (REACH). This product must not be used for other applications that mentioned in §1.
Revisions	: 05-May-2015 : Version 1.0 - First version validated for publication 15-July-2015 : Version 2.0 - Classification according to Directive 67/548 / EEC (DSD) or 1999/45 / EC (DPD) deleted. SDS in accordance with Regulation (EC) No 2015/830 20-October-2015 : Version 2.1 - SDS changed section(s) : 2.1 / 2.3 / 3.1 / 14.6 / 15.1.1 / 16. 20-May-2019 : Version 2.2 – SDS changed section (s) : 1.3. 11-January-2022 : Version 2.3 – SDS changed section (s) : 1.2.1/1.3. 12-May-2023 : Version 3.0 – modification according to (EU) 2020/878 SDS changed section (s) : 2.3, 11.1, 11.2, 12.6, 12.7, 14.7.
Safety data sheet established by	: LISAM SERVICES - TELEGIS 17, Rue de la Couture F-60400 PASSEL Safety Made Easy with <a href="http://www.lisam.com">www.lisam.com</a> .

### SDS EU (REACH Annex II)

*The SDS delivery remains the responsibility of the importer even if an only representative has been appointed, unless if the only representative also imports and provides the substance.*

*Information in this safety data sheet is based on data provided by the non European manufacturer and on our current knowledge of the substance and is intended to describe the product for the purposes of health, safety and environmental requirements only. It is the user's responsibility to determine the accuracy or adequacy of such information. The adoption of the necessary safety measures for any intended use remains the responsibility of the user.*