

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

Page 1/4 Printing date 14.01.2016 Revision: 13.01.2016

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

#### 1.1 Product identifier

# Trade name Sodium tripolyphosphate

Stock number: 13440 CAS Number: EC number:

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

Identified use: SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

1.3 Details of the supplier of the Manufacturer/Supplier:
Thermo Fisher (Kandel) GmbH Zeppelinstr. 7b
76185 Karlsruhe / Germany
Tel: +49 (0) 721 84007 280
Fax: +49 (0) 721 84007 300
Email: tech@alfa.com

www.alfa.com Informing department: Product safety Tel + +049 (0) 7275 988687-0

1.4 Emergency telephone number:

Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)

Poison Information Center Mainz

www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

#### SECTION 2: Hazards identification

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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Other hazards that do not result in classification No information known.

#### 2.2 Label elements

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



Signal word Warning Hazard statements

H315 Causes skin irritation. H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

Precautionary statements

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

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. P501 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

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

3.1 Substances

CAS# Designation: 7758-29-4 Sodium tripolyphosphate

Identification number(s): EC number: 231-838-7

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

After skin contact

Instantly wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Seek medical treatment.

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 Product is not flammable. Use fire-fighting measures that suit the surrounding fire.
5.2 Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:

Sodium oxide

Phosphorus oxides

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

(Contd. on page 2)

Page 2/4 Printing date 14.01.2016 Revision: 13.01.2016

## Trade name Sodium tripolyphosphate

Wear full protective suit.

(Contd. of page 1)

#### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.
6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

Prevention of secondary hazards: No special measures required.

**6.4 Reference to other sections**See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

#### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle under dry protective gas.
Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: The product is not flammable

## 7.2 Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Store away from water.

Do not store together with acids.
Store away from oxidising agents.
Further information about storage conditions:

This product is hygroscopic.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No data

8.2 Exposure controls

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use breathing protection with high concentrations.
Recommended filter device for short term use:
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if airpurifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protection of hands:
Check protective gloves prior to each use for their proper condition.

Check protection of nances:
Check protective gloves prior to each use for their proper condition.
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.

Material of gloves Nitrile rubber, NBR

Penetration time of glove material (in minutes) 480

Glove thickness 0.11 mm

Eve protection:

Eye protection: Safety glasses Face protection

Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

General Information Appearance: Form:

Granulate Smell: Not determined Odour threshold: Not determined pH-value: Not applicable.

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:
Inflammability (solid, gaseous)
Ignition temperature:
Decomposition temperature:
Self-inflammability: 622 °C Not determined Not determined Not determined

Not determined Not determined Not determined Not determined.

Danger of explosion: Critical values for explosion: Lower: Upper:

Not determined Not applicable. Steam pressure: Density Not determined Relative density Vapour density Not determined. Not applicable. **Evaporation rate** Not applicable.

Not determined

(Contd. on page 3)

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

Page 3/4 Printing date 14.01.2016 Revision: 13.01.2016

(Contd. of page 2)

## Trade name Sodium tripolyphosphate

Solubility in / Miscibility with
Water at 20 °C: 145 g/l
Partition coefficient (n-octanol/water): Not determined.

dvnamic:

kinematic 9.2 Other information Not applicable. Not applicable. No further relevant information available.

#### SECTION 10: Stability and reactivity

10.1 Reactivity No information known.
 10.2 Chemical stability Stable under recommended storage conditions.
 Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Acids Water/moisture

Oxidising agents

10.6 Hazardous decomposition products:

Sodium oxide Phosphorus oxides (e.g. P2O5)

#### SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance

#### LD/LC50 values that are relevant for classification:

LD50 3120 mg/kg (rat) Oral Dermal LD50 >4640 mg/kg (rabbit)

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye irritation.

Sensitization: No sensitizing effect known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Sensitic target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: May cause respiratory irritation.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Not applicable

Not applicable

#### SECTION 12: Ecological information

12.1 Toxicity

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Additional ecological information:

General notes:
Water hazard class 1 (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

Avoid transfer into the environment.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

## SECTION 14: Transport information

**UN-Number** ADR, ADN, IMDG, IATA Not applicable 14.2 UN proper shipping name ADR, ADN, IMDG, IATA

14.3 Transport hazard class(es)

14.6 Special precautions for user

ADR, ADN, IMDG, IATA

Not applicable Class

Packing group ADR, IMDG, IATA

Not applicable

14.5 Environmental hazards: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Not applicable Code

**UN "Model Regulation":** 

## SECTION 15: Regulatory information

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

Australian Inventory of Chemical Substances Substance is listed.

Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.

National regulations Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Page 4/4 Printing date 14.01.2016 Revision: 13.01.2016

(Contd. of page 3)

## Trade name Sodium tripolyphosphate

For use only by technically qualified individuals. Classification according to VbF: Not applicable

Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human

ELINCS (European List of Notified Chemical Substances) Substance is not listed.
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

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

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing SDS:** Global Marketing Department

Department issuing SDS: Global Marketing Department
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)

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)

VbF: Verordunng über brennbare Flüssigkeiten, Osterreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

VPWB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)

Skin Irrit: 2 Skin corroison/irritation, Hazard Category 2

Eye Irrit: 2: Serious eye damage/eye irritation, Hazard Category 3

DE