

Safety Data Sheet

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

Product identifier	
Product name:	tetra-Nátrium-pirofoszfát
CAS Number:	7722-88-5
Application of the substance / the mixture	Laboratory chemical
Details of the supplier of the safety data sheet	
Supplier:	Thomasker Finomvegyszer Kft.
Address:	1163 Budapest, Cziráki u. 26-32.
Tel.:	+36-1-403-58-10
Fax:	+36-1-403-86-55
E-mail:	info@thomasker.hu
Emergency telephone number	Egészségügyi Toxikológiai Szolgálat +06/80-201-199

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral), Category 4

H302 Harmful if swallowed.

Serious eye damage/eye irritation, Category 1

H318 Causes serious eye damage.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US):



Signal word (GHS-US):

Danger

Hazard statements (GHS-US):

H302 - Harmful if swallowed. H318 - Causes serious eye damage.

Precautionary statements (GHS-US):

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell

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

P330 - Rinse mouth.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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

Name: tetra-Nátrium-pirofoszfát

CAS-No.: 7722-88-5

Name	Product identifier	%	GHS-US classification
Tetrasodium pyrophosphate	(CAS-No.) 7722-88-5	>= 95	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of hazard classes and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures**4.1. Description of first aid measures**

First-aid measures after inhalation:

Remove victim to fresh air. If feeling unwell, immediately seek medical attention.

First-aid measures after skin contact:

Immediately rinse with plenty of water. Remove contaminated clothing and shoes.

First-aid measures after eye contact:

In case of eye contact, immediately rinse with clean water for 10-15 minutes. Take medical advice immediately.

First-aid measures after ingestion:

Do not induce vomiting. Call a physician immediately. Immediately rinse mouth with water.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects:

Permanent eye damage.

4.3. Immediate medical attention and special treatment, if necessary

See Heading 4.1.

SECTION 5: Fire-fighting measures**5.1. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media:

Water spray. Carbon dioxide (CO₂). Foam. Powders.

Unsuitable extinguishing media:

None.

5.2. Specific hazards arising from the chemical

Fire hazard:

On exposure to high temperature, may decompose, releasing toxic gases.

Reactivity:

The product is stable at normal handling and storage conditions.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting:

Tight protective clothing required. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:

In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit. Avoid dust production. Personal protective equipment (see section (s) :8.2).

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

On land, sweep or shovel into suitable containers. Avoid dust production. Rinse with plenty of water.

6.4. Reference to other sections

See section 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Do not breathe dust. Avoid contact with skin, eyes and clothing. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Remove contaminated clothing and shoes. Wash clothing before re-using. Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full. Avoid dust production.

Hygiene measures:

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep container closed when not in use. Store in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrasodium pyrophosphate (7722-88-5)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable) - 3 mg/m ³ (respirable dust)
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (inhalable) - 5 mg/m ³ (respirable dust)

8.2. Appropriate engineering controls

Appropriate engineering controls:

Good ventilation of the workplace required. Monitor the atmosphere at regular intervals. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. If handling results in dust generation or high temperatures, local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Use as far as possible in a closed system.

Environmental exposure controls:

Do not flush into surface water or sewer system.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemical protective gloves.

Eye protection:

Chemical goggles or face shield with safety glasses.

Skin and body protection:

Protective clothing (with elasticated cuffs and closed neck)

Respiratory protection:

Use respiratory protection mask according to NIOSH/MSHA

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Solid

Appearance:

Powder. Hygroscopic granular.

Colour:

white

Odour:

odourless

Odour threshold:

No data available

pH:

9.8 - 10.5

Melting point:

880 °C

Freezing point:

No data available

Boiling point:

No data available

Flash point:

Not flammable

Relative evaporation rate (butylacetate=1):

No data available

Flammability (solid, gas):

Not applicable

Vapour pressure:

Not applicable

Relative vapour density at 20 °C:

No data available

Relative density:

No data available

Density:

1.0 - 1.2 g/cm³ 0.6 - 0.9 g/cm³

Solubility:

Water: 5.6 g/100g 20°C

Log Pow:

No data available

Auto-ignition temperature:

Not applicable

Decomposition temperature:

No data available

Viscosity, kinematic:

No data available

Viscosity, dynamic:

No data available

Explosive limits:

Not applicable

Explosive properties:

Product is not explosive.

Oxidising properties:

Non oxidizing material according to EC criteria.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Moisture. Heat.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):

Oral: Harmful if swallowed.
 Acute toxicity (dermal)
 Not classified
 Acute toxicity (inhalation):
 Not classified

Tetrasodium pyrophosphate (7722-88-5)	
LD50 oral rat	>300 <2000 mg/kg OECD 420
LD50 dermal rat	> 2000 mg/kg OECD 402
LC50 inhalation rat (mg/l)	> 0.58 mg/l OECD 403

Skin corrosion/irritation:
 Not classified
 pH: 9.8 - 10.5
 Serious eye damage/irritation:
 Causes serious eye damage.
 pH: 9.8 - 10.5
 Respiratory or skin sensitisation:
 Not classified
 Germ cell mutagenicity:
 Not classified
 Carcinogenicity:
 Not classified
 Reproductive toxicity:
 Not classified
 STOT-single exposure:
 Not classified
 STOT-repeated exposure:
 Not classified
 Aspiration hazard:
 Not classified
 Viscosity, kinematic:
 No data available
 Symptoms/effects:
 Permanent eye damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water:
 This product does not present any particular risk for the environment.

Tetrasodium pyrophosphate (7722-88-5)

LC50 fish 1
 > 100 mg/l (96h-Rainbow trout, OECD 203)
 EC50 Daphnia 1
 > 100 mg/l (48h - Daphnia magna, EPA OTS 797.1300, OECD 202)
 EC50 other aquatic organisms 1
 > 1000 mg/l (3h - ACTIVATED SLUDGE, OECD 209)
 ErC50 (algae)
 > 100 mg/l (72h - Desmodesmus subspicatus (algae), OECD 201)
 NOEC chronic algae

> 100 mg/l (72h - Desmodesmus subspicatus, OECD 201)
NOEC (additional information)
(3 Hours- 1000 mg/L, ACTIVATED SLUDGE, OECD 209)

12.2. Persistence and degradability

Tetrasodium pyrophosphate (7722-88-5)
Persistence and degradability
Not relevant. (inorganic substance).

12.3. Bioaccumulative potential

Tetrasodium pyrophosphate (7722-88-5)
Bioaccumulative potential
Low bioaccumulation potential.

12.4. Mobility in soil

Tetrasodium pyrophosphate (7722-88-5)
Ecology - soil
No data available.

12.5. Other adverse effects

Other adverse effects:
No.
Other information:
Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods:
Comply with local regulations for disposal.
Additional information:
Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.
Ecology - waste materials:
This material when discarded in pure form is not a hazardous waste as defined by 40 CFR 261, the Resource Conservation and Recovery Act (RCRA). Dry materials may be landfilled or recycled in accordance with local, state, and federal regulations. If materials have become contaminated with other substances, dispose of in accordance with local, state, and federal regulations.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not regulated
Transport by sea
Not regulated
Air transport
Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA Section 302 Threshold Planning Quantity (TPQ)
Not applicable

Tetrasodium pyrophosphate (7722-88-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 302 Threshold Planning Quantity (TPQ)

15.2. International regulations

CANADA

Tetrasodium pyrophosphate (7722-88-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

Tetrasodium pyrophosphate (7722-88-5)

CERCLA reportable quantities : not applicable SARA Title III: Not applicable RTCES number:UX 7350000 ANSI/NSF Std.

60 – potable water systems : Certified Hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200), Appendix A : Irritant

15.3. US State regulations

Tetrasodium pyrophosphate(7722-88-5)

U.S. – New York City – Right to Know Hazardous Substances List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-statements:

H302 Harmful if swallowed.

H318 Causes serious eye damage.