

Sodium Tripolyphosphate (STPP)

DATE OF ISSUE: 2017-01-01

Section 1 - Chemical Product and Company Identification

Chemical Name: Sodium Tripolyphosphate
 Chemical Formula: Na₅P₃O₁₀
 Supplier's Name: LUKEM (Nanjing) Co., Ltd
 Address: B 2002, 251 Heyan road,210028, Nanjing, Jiangsu, China
 Emergency Call: 0086-25-85552709
 Chemical Family: Inorganic
 Trade Name and Synonyms: STPP
 Material Use: Primary chemical and chemical additive

Section 2 - Composition, Information on Ingredients

2.1 Ingredients

1. Sodium Tripolyphosphate Anhydrous (Na₅P₃O₁₀)
2. Sodium Tripolyphosphate Hexahydrate (Na₅P₃O₁₀.6H₂O)

2.2 CAS Number

7758-29-4 (Anhydrous)

15091-98-2 (Hexahydrate)

CAS#	Chemical Name	Percent	EINECS/ELINCS
7758-29-4	Sodium Tripolyphosphate Anhydrous	ca.94	

Hazard Symbols: None listed.

Risk Phrases: None listed.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

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Appearance: white. **Caution!** Moisture sensitive. This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause fetal effects based upon animal studies.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.

Section 6 - Accidental Release Measures

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General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Do not allow contact with water. Keep from contact with moist air and steam.

Storage: Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Tripolyphosphate	none listed	none listed	none listed

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

9.1 Form Powder or granules

9.2 Colour White

9.3 Odour None

9.4 Change in physical state Anhydrous melts without decomposition above 600°C Hexahydrate decomposes to pyrophosphate and orthophosphate above 100°C

9.5 Bulk Density 0.6-0.9g/ml

9.6 Vapour pressure Not applicable

9.7 Viscosity Not applicable

9.8 pH Value 9.2-10.0 (1% solution.)

9.9 Flash point Not applicable

9.10 Ignition temperature Does not burn or help other materials to burn

9.11 Explosion limits Not relevant

Section 10 - Stability and Reactivity

10.1 Thermal decomposition Anhydrous melts without decomposition above 600°C Hexahydrate decomposes to pyro and orthophosphate above 100°C

10.2 Hazardous thermal decomposition products None

10.3 Hazardous reactions None

Section 11 - Toxicological Information

11.1 The products are not considered to be toxic during the normal course of handling. The food grade STPP has been used as a food additive for many years.

Section 12 - Ecological Information

12.1 Ecological effects High pH may affect effluent and sewage treatment processes.

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Section 13 - Disposal Considerations

13.1 Sweep up spillage and recover/recycle if possible. Otherwise place in a fiber keg or paper sack and dispose as industrial waste.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	Sodium Tripolyphosphate				
Hazard Class:	n/a				
UN Number:	n/a				
Packing Group:	n/a				

Section 15 - Regulatory Information

15.1 Mildly alkaline and may cause irritation to the skin, mucous membranes and eyes. Remove dust from the skin by washing with water; in cases of eye contamination, irrigate the eye with flowing water and obtain medical advice if there is persistent irritation. Not classified as hazardous under CPL 1984 regulations.

15.2 Air contamination limits - None established

Section 16 - Additional Information

16.1 This product may be used in the applications like Detergents, Water Treatment, Metal Treatment, Paints, Drilling Muds, Paper Pulping and Ore Flotation etc.

16.2 Food grade material finds applications in seafood processing, curing of hams and bacon, as a binder in comminuted meat products, as a additive for canned meats, a component of cheese emulsifiers, and as a tenderizing agent in the blanching of vegetables prior to freezing.

MSDS Creation Date: 7/15/2009

Revision #2 Date: 23/01/2016

The information above is believed to be accurate and represents the best information currently available to us. However, we make no



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