

# SAFETY DATA SHEET

Creation Date 09-Feb-2010

Revision Date 26-Mar-2024

**Revision Number** 3

1. Identification

Sodium pyrophosphate decahydrate

# Product Name

Cat No. : A16195

CAS No Synonyms

13472-36-1 TSPP

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

## <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

# **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

## Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



# Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

## Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

## Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# Storage

Store in a well-ventilated place. Keep container tightly closed

# Store locked up

# Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium pyrophosphate decahydrate	13472-36-1	>95
Sodium pyrophosphate	7722-88-5	-

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.		
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.		
Ingestion	Do NOT induce vomiting. Get medical attention.		
Most important symptoms and	No information available.		
effects Notes to Physician	Treat symptomatically		
	5. Fire-fighting measures		

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

### Hazardous Combustion Products

Oxides of phosphorus. Sodium oxides.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	ns Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
<b>Environmental Precautions</b> Should not be released into the environment. See Section 12 for additional Ecologi Information.			n 12 for additional Ecological

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage		
Handling Wear personal protective equipment/face protection. Ensure adequate ven get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid d		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.	

# 8. Exposure controls / personal protection

Exposure Guidelines

Component ACGIH TLV		OSHA PEL	NIOSH	Mexico OEL (TWA)
Sodium pyrophosphate		(Vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	

#### <u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH: NIOSH - National Institute for Occupational Safety and Health

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	9. Physical and chemical properties		
Physical State	Solid		
Appearance	White		
Odor	Odorless		
Odor Threshold	No information available		
рН	10 1% aq.sol		
Melting Point/Range	80 °C / 176 °F		
Boiling Point/Range	93.8 °C / 200.8 °F @ 760 mmHg		
Flash Point	No information available		
Evaporation Rate	Not applicable		
Flammability (solid,gas)	No information available		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	Not applicable		
Specific Gravity	No information available		
Solubility	Slightly soluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	> 94°C		
Viscosity	Not applicable		
Molecular Formula	Na4 O7 P2 . 10 H2 O		
Molecular Weight	446.05		

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Product	t <b>s</b> Oxides of phosphorus, Sodium oxides	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Componer	nt	LD50 Oral		LD50 Dermal		Inhalation	
Sodium pyropho	Sodium pyrophosphate LD5		(Rat) LD50 >	2000 mg/kg (Rabbit	) No	ot listed	
oxicologically Syn roducts elaved and immed	-		No information available				
ritation		Irritating to eyes, r					
ensitization		No information ava	ailable				
arcinogenicity		The table below in	dicates whether e	each agency has lis	ted any ingredient	as a carcinoge	
Component	CAS N	D IARC	NTP	ACGIH	OSHA	Mexico	
Sodium pyrophosphate decahydrate	13472-36	6-1 Not listed	Not listed	Not listed	Not listed	Not listed	
Sodium pyrophosphate	7722-88	-5 Not listed	Not listed	Not listed	Not listed	Not listed	
utagenic Effects	^ 	No information ava	No information available				
Reproductive Effects		No information ava	No information available.				
evelopmental Effe	cts	No information ava	No information available.				
eratogenicity		No information ava	No information available.				
TOT - single expos TOT - repeated ex		Respiratory syster None known	n				
spiration hazard		No information ava	No information available				
ymptoms / effects elayed	s,both acute	and No information ava	No information available				
ndocrine Disrupto	r Informatio	No information ava	No information available				
			The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				

# 12. Ecological information

Ecotoxicity	

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium pyrophosphate	Not listed	LC50: = >100 mg/l, 96h	Not listed	EC50: = >100mg/l, 48h
		(Oncorhynchus mykiss)		(Daphnia magna, Mobility)
Persistence and Degrada	ability Soluble in wa	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accun Mobility		on available. mobile in the environment	due to its water solubility.	
	13. Disposal considerations			
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			local, regional, and	

	14. Transport information
DOT	Not regulated
DOT _ <u>TDG</u> IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

## United States of America Inventory

C	Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
	m pyrophosphate lecahydrate	13472-36-1	-	-	-
Sodiur	m pyrophosphate	7722-88-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical N Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium pyrophosphate decahydrate	13472-36-1	-	-	-	Х	Х	Х	Х	Х	-
Sodium pyrophosphate	7722-88-5	Х	-	231-767-1	Х	Х		Х	Х	KE-33702

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

# CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Γ	Sodium pyrophosphate	Х	Х	Х	-	Х

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

## **Other International Regulations**

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	, <u> </u>	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium pyrophosphate decahydrate	13472-36-1	-	-	-
Sodium pyrophosphate	7722-88-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium pyrophosphate decahydrate	13472-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Sodium pyrophosphate	7722-88-5	Listed	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

# Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium pyrophosphate decahydrate	13472-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Sodium pyrophosphate	7722-88-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	09-Feb-2010 26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS