

# Part of Thermo Fisher Scientific

## SAFETY DATA SHEET

Creation Date 09-Feb-2010	Revision Date 25-Sep-2014	Revision Number 1		
	1. Identification			
Product Name	Sodium pyrophosphate decahydrate			
Cat No. :	S390-3; S390-10; S390-500			
Synonyms	Tetrasodium pyrophosphate; TSPP (Crystalline/Certified ACS)	Tetrasodium pyrophosphate; TSPP (Crystalline/Certified ACS)		
Recommended Use	Laboratory chemicals.	Laboratory chemicals.		
Uses advised against Details of the supplier of the saf	No Information available ety data sheet			
<b>Company</b> Fisher Scientific One Reagent Lane	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887			

2. Hazard(s) identification

#### Classification

Fair Lawn, NJ 07410 Tel: (201) 796-7100

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.

#### Label Elements

Signal Word Warning

#### **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Category 2 Category 2 Category 3



### 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. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point	No information available		
Method -	No information available		
Autoignition Temperature	No information available		
Explosion Limits Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impac			
Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the C Thermal decomposition can lead to re		apors.	
Hazardous Combustion Products Sodium oxides Oxides of phosphorus Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear. Thermal decomposition	athing apparatus pressure-de		red or equivalent) and full
NFPA_			
Health 2	Flammability	Instability 0	Physical hazards N/A
_			
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions		h. Use personal protective equentiate the environment. See Section	ipment. Avoid dust formation. 12 for additional ecological
Methods for Containment and Clea Up	<b>n</b> Sweep up or vacuum up sp formation.	illage and collect in suitable co	ontainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling	Wear personal protective ed	0	entilation. Do not get in eyes, on dust formation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 8. Exposure controls / personal protection

Exposure Guidelines

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

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Sodium pyrophosphate	TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>
Legend			

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or 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**

Hygiene Measures

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. Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition temperature
Viscosity
Molecular Formula
Molecular Weight

Solid White Odorless No information available 10 1% aq.sol 80 °C / 176 °F 93.8 °C / 200.8 °F @ 760 mmHg No information available No information available No information available

No data available No data available No information available No information available No information available Slightly soluble in water No data available No information available > 94°C No information available Na4 O7 P2 . 10 H2 O 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	<b>s</b> Sodium oxides, Oxides of phosphorus
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

### 11. Toxicological information

#### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium pyrophosphate	1000 - 3000 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u>e</u>
Irritation	Irritating to eyes, respirato	ry system and skin	
Sensitization	No information available		

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium pyrophosphate decahydrate	13472-36-1	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
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known						
Aspiration hazard	piration hazard No information available					
Symptoms / effects,both acute and No information available delayed		ailable				
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTE complete information.			entry in RTECS f			

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwate	er Algae	Freshwater Fish	Microtox	Water Flea			
Sodium pyrophosphate	Not listed L		Leuciscus idus: LC50 = 1500 mg/L 48h	Not listed	Not listed			
Persistence and Degrada	ability N	lo informatio	on available					
Bioaccumulation/ Accun	nulation N	No information available.						
Mobility No information available.								
		13. Di	sposal considera	ations				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.								
		14. T	ransport informa	ation				

DOT	Not regulated
TDG	Not regulated
DOT TDG IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### **International Inventories**

	Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
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Sodium pyrophosphate decahydrate	-	-	-	-	-	Х	Х	Х	Х	-
Sodium pyrophosphate	Х	Х	-	231-767-1	-	Х	-	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

Yes No No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Cate Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressur Reactive Hazard	-	
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials

Thermo Fisher Scientific



Prepared By

16. Other information Regulatory Affairs

Creation Date Revision Date Print Date Revision Summary Email: EMSDS.RA@thermofisher.com 09-Feb-2010 25-Sep-2014 25-Sep-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

### **End of SDS**