

SAFETY DATA SHEET

Revision Date 17-May-2016

Revision Number 1

1. Identification					
Product Name	Sodium pyrophosphate decahydrate				
Cat No. :	S390-3, S390-10, S390-500				
Synonyms	TSPP				
Recommended Use	aboratory chemicals.				
Uses advised against Details of the supplier of the safety	No Information available data sheet				
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887				

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

Creation Date 09-Feb-2010

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

Sodium oxides Oxides of phosphorus

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	elease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equi to the environment. See Section	
Methods for Containment and C Up	lean Sweep up or vacuum up formation.	spillage and collect in suitable co	ntainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ve l ingestion and inhalation. Avoid o	

Storage

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

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium pyrophosphate		(Vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV

Legend

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

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity 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 Not applicable No information available

No data available No data available No information available Not applicable No information available Slightly soluble in water No data available

> 94°C Not applicable 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	s Sodium oxides, Oxides of phosphorus
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

LD50 Oral	LD50 Dermal	LC50 Inhalation				
LD50 1000 - 3000 mg/kg (Rat)	Not listed	Not listed				
No information available as well as chronic effects from sh	ort and long-term exposu	<u></u>				
Irritating to eyes, respiratory sy	ystem and skin					
No information available						
The table below indicates whether each agency has listed any ingredient as a carcino						
	LD50 1000 - 3000 mg/kg (Rat) No information available as well as chronic effects from sh Irritating to eyes, respiratory sy No information available	LD50 1000 - 3000 mg/kg (Rat) Not listed No information available sas well as chronic effects from short and long-term exposure Irritating to eyes, respiratory system and skin No information available				

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	S	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information ava	ailable				
Symptoms / effects	,both acute and	No information ava	ailable				
delayed Endocrine Disrupto	r Information	No information ava	ailable				
Other Adverse Effect	cts	The toxicological p complete informati		t been fully investig	gated. See actual e	entry in RTECS fo	

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium pyrophosphate	Not listed	Leuciscus idus: LC50 = 1500 mg/L 48h	Not listed	Not listed
Persistence and Degrada Bioaccumulation/ Accum Mobility	nulation No information	ater Persistence is unlikely on available. mobile in the environment		lable.
	,	sposal considera	,	
Waste Disposal Methods	hazardous wa	ste generators must deterr aste. Chemical waste gen ardous waste regulations to	erators must also consult	local, regional, and
	14. T	ransport informa	ation	
DOT	Not regulated	1		

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

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
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 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard		
CWA (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

U.S. State Right-to-Know Regulations

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



16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date Revision Summary 09-Feb-2010 17-May-2016 17-May-2016 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

Prepared By

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End of SDS