

# SAFETY DATA SHEET

Creation Date 02-Feb-2010

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Sodium phosphate dodecahydrate

Cat No. :

**Synonyms** 

CAS-No

10101-89-0 Trisodium phosphate dodecahydrate; TSP

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

A15713

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

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

### Eves

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 %
Tribasic sodium phosphate dodecahydrate	10101-89-0	>95
Trisodium phosphate	7601-54-9	-

## 4. First-aid measures

General Advice	If symptoms persist, call a physician.
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. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO $_2$ , alcohol-resistant foam or water spray.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

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

Keep product and empty container away from heat and sources of ignition.

### **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.

<u>NFPA</u>	Health 2	Flammability 0	Instability 0	Physical hazards N/A			
		6. Accidental rel	ease measures				
Personal	Precautions	Ensure adequate ventilatio formation.	n. Use personal protective eq	uipment as required. Avoid dust			
Environm	nental Precautions	Should not be released into	o the environment.				
Methods Up	for Containment an	d Clean Sweep up and shovel into a containers for disposal.	suitable containers for dispose	al. Keep in suitable, closed			
		7. Handling a	and storage				
Handling			Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.				
Storage		Keep containers tightly close	Keep containers tightly closed in a dry, cool and well-ventilated place.				
		8. Exposure controls	/ personal protect	ion			
Exposure	e Guidelines		ain any hazardous materials v jion specific regulatory bodies				
Engineer	ing Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.					
<u>Personal</u>	Protective Equipme	ent_					
Eye/fa	ace Protection	Wear appropriate protective	e eyeglasses or chemical safe	ety 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	Phys	sical	and	chemical	properties
1.	I I I Y 🗸	JICUI	and	Chemicar	

**Physical State** Appearance Odor **Odor Threshold** рΗ 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** Bulk Density Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight** 

Solid White Odorless No information available 11.8-12 1% aq. solution 75 °C / 167 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable 1.620 900 kg/m<sup>3</sup> Soluble in water No data available

>75 °C Not applicable Na3 O4 P . 12 H2 O 380.13

# 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 Products Oxides of phosphorus, Sodium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

### Acute Toxicity

Product	Information
Compone	ent Information

Component LD50 Oral LD50 Dermal LC50 Inhalation
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Tribasic sodium phosphate L dodecahydrate		LD50 = 7400 mg/kg (Rat) Not listed		Not listed					
Trisodium phosphate		>2000 mg/kg (Rat)	>2	000 mg/kg ( Rat )	LC50 > 2.16	LC50 > 2.16 mg/L (Rat) 1 h			
oxicologically Syn Products Delayed and immed	-	No information ava		nd long-term expos	sure_				
ritation		Irritating to eyes an	id skin						
ensitization		No information ava	ilable						
arcinogenicity		The table below inc	dicates whether e	ach agency has liste	ed any ingredient	as a carcinogen			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Tribasic sodium phosphate dodecahydrate	10101-89-0	Not listed	Not listed	Not listed	Not listed	Not listed			
Trisodium phosphate	7601-54-9	Not listed	Not listed	Not listed	Not listed	Not listed			
lutagenic Effects		No information ava	ilable			-			
Reproductive Effects Developmental Effects		No information available. No information available.							
Teratogenicity		No information available.							
STOT - single exposure STOT - repeated exposure		Respiratory system None known							
Aspiration hazard		No information available							
Symptoms / effects lelayed	,both acute and	No information available							
Indocrine Disruptor	r Information	No information available							
Other Adverse Effects		The toxicological properties have not been fully investigated.							
		12. Ecolo	ogical infor	mation					
<u>cotoxicity</u> To not empty into dra	iins.								
<b>Persistence and Degradability</b> Soluble in water Persistence is unlikely based on information available.									
Bioaccumulation/ Accumulation No information available.									
Bioaccumulation/ A	oounnalation				Mobility Will likely be mobile in the environment due to its water solubility.				
		Will likely be mobile	e in the environm	ent due to its water	solubility.				

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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

# 15. Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Tribasic sodium phosphate dodecahydrate	10101-89-0	-	-	-
Trisodium phosphate	7601-54-9	Х	ACTIVE	-

#### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Tribasic sodium phosphate dodecahydrate	10101-89-0	-	-	-	Х	-	Х	Х	-
Trisodium phosphate	7601-54-9	Х	-	231-509-8	Х	Х	Х	Х	KE-34912

#### U.S. Federal Regulations

SARA 313 Not applicable

### SARA 311/312 Hazard Categories See section 2 for more information

#### CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Tribasic sodium phosphate dodecahydrate	Х	-	-	-
Trisodium phosphate	Х	5000 lb	-	-

#### **Clean Air Act**

Not applicable

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

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Hazardous Substances RQs	CERCLA EHS RQs		
5000 lb	-		
5000 lb	-		
-	5000 lb		

**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
Tribasic sodium	Х	-	Х	-	-
phosphate					
dodecahydrate					
Trisodium phosphate	Х	Х	Х	-	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	Y N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date	02-Feb-2010
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 10101-89-0/3.

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**