

# Sodium Phosphate Tribasic, Anhydrous Technical

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Phosphate Tribasic, Anhydrous Technical

**Synonyms/Generic Names:** Trisodium Phosphate Anhydrous; Phosphoric Acid, Trisodium Salt; Trisodium Orthophosphate

Product Number: 5339

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30) www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

Target Organs: Lungs

Signal Word: Warning

Pictograms:



#### **GHS Classification:**

Skin irritation	Category 2
Eye irritation	Category 2A
Specific target organ toxicity-single exposure (Respiratory System)	Category 3

GHS Label Elements, including precautionary statements:

#### **Hazard Statements:**

H315+H320	Causes skin and eye irritation.
H335	May cause respiratory irritation.

#### **Precautionary Statements:**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.		
P264	Wash hands thoroughly after handling.		
P271	Use only outdoors or in a well-ventilated area.		
P280	Wear protective gloves/eye protection/face protection.		
P302+P352	IF ON SKIN: Wash with plenty of water.		

	IF INHALED: Remove person to fresh air and keep comfortable for
P304+P340	breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

#### **Potential Health Effects**

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous
	membranes and upper respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

#### **NFPA Ratings**

Health	2
Flammability	0
Reactivity	0
Specific hazard	Not Available

### HMIS Ratings Health 2 Fire 0 Reactivity 0

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Phosphate Tribasic	>97	7601-54-9	231-509-8	Na3PO4	163.94 g/mol

# 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.	
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not	
	breathing, give artificial respiration. Get medical attention.	
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and	
	wash using soap. Get medical attention.	
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If	
	conscious, wash out mouth with water. Get medical attention.	

# 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (oxides of phosphorus and sodium) under fire conditions. (See also Stability and Reactivity section).

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Pick up and arrange disposal without creating dust. Sweep up and
containment and cleaning up	place in suitable, closed containers for disposal. Clean surfaces
	thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Moisture sensitive. Keep away from incompatible materials (see section 10 for incompatibilities).

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Sodium Phosphate Tribasic	5 mg/m <sup>3</sup>	WEEL	AIHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

#### Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)

White crystalline solid.

Odor	Not Available
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	75°C (167°F)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.62 (Water = 1)
Solubility (ies)	Soluble in cold water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

### **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Strong acids.
Hazardous Decomposition	Phosphorus oxides, sodium oxides.
Products	

# **11. TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

Sodium Phosphate Tribasic

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Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

### Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is
	identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is
	identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness.	
Eyes	Irritation, redness, watering eyes, itchiness.	
Respiratory	Irritation, coughing, wheezing, headache, shortness of breath.	
Ingestion	Irritation, nausea, vomiting, diarrhea, headache.	
Chronic Toxici	ty Not Available	
Teratogenicity	Not Available	
Mutagenicity		Not Available

Embryotoxicity	Not Available
Specific Target Organ Toxicity	Inhalation - May cause respiratory irritation.
Reproductive Toxicity	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Sodium Phosphate Tribasic

	0	
Aquatic Vertebrate	Not Avail	able
Aquatic Invertebrate	Not Avai	able
Terrestrial	Not Available	
Persistence and Degra	adability	Not Available
<b>Bioaccumulative Poter</b>	ntial	Not Available
Mobility in Soil		Not Available
PBT and vPvB Assess	ment	Not Available
Other Adverse Effects		Harmful to aquatic life.

### **13. DISPOSAL CONSIDERATIONS**

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

# **14. TRANSPORTATION INFORMATION**

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

# **15. REGULATORY INFORMATION**

TSCA Inventory Status	All ingredients are listed on the TSCA Active
	inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Listed: Sodium Phosphate Tribasic
Right to Know	
Pennsylvania: Hazardous Substance List	Not Listed
New Jersey: Right to Know Hazardous Substance	Not Listed
List	

SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard, Chronic Health Hazard.
SARA 312	Acute Health Hazard, Chronic Health Hazard.
SARA 313	Not Listed
WHMIS Canada	Class E: Corrosive material.

### **16. OTHER INFORMATION**

Revision	Date
Original	08/24/2012
Revision 1	03/06/2015
Revision 2	09/13/2021

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