

Safety Data Sheet

Sodium Phosphate Tribasic, Dodecahydrate, Crystal, ACS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Phosphate Tribasic, Dodecahydrate, Crystal, ACS

Synonyms/Generic Names: TSP; Trisodium phosphate (tert) Dodecahydrate; Trisodium phosphate

dodecahydrate

Product Number: 5330

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

Hazard Not Otherwise Classified (HNOC): None

Signal Word: Danger

Pictograms:



GHS Classification:

Skin corrosion	Category 1B
Serious eye damage	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

H314	Causes severe skin burns and eye damage.

Precautionary Statements:

-	,	- 10.10.	
	P260		Do not breathe dusts or mists.
	P264		Wash hands thoroughly after handling.
	P280		Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+	-P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse	
	skin with water/shower.	
	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.	
P310	Immediately call a POISON CENTER/doctor/physician.	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local regulations.	

Potential Health Effects

Eyes	Causes eye burns.		
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 burns.		
Ingestion May be harmful if swallowed.			

NFPA Ratings

Health	3
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	3
Fire	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Phosphate Tribasic, Dodecahydrate	>99	10101-89-0	231-509-8	Na3PO4·12H2O	380.12 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.			
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 immediately.			
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and			
	wash using soap. Get medical attention immediately.			
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If			
_	conscious, wash out mouth with water. Get medical attention immediately.			

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.	
extinguishing media		
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for	clothing, including eye protection and boots.	
firefighters		
Specific hazards arising from	Emits toxic fumes (phosphorus oxides, sodium oxides) under fire	
the chemical	conditions. (See also Stability and Reactivity section).	

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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. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Sodium Phosphate	5 mg/m ³	WEEL	AIHA
Tribasic, Dodecahydrate			

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.

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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
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 Products	Phosphorus oxides, sodium oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Sodium Phosphate, Tribasic, Dodecahydrate

Skin	Not Available	
Eyes	Not Available	
Respiratory	Respiratory Not Available	
Ingestion LD50 Oral - rat - 7,400 mg/kg		

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		
	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.		

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Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Target Organ(s)	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sodium Phosphate, Tribasic, Dodecahydrate

Ad	quatic Vertebrate	LC0 - Leuciscus idus (Golden orfe) - 2,400 mg/l - 48 h	
Ac	quatic Invertebrate	Not Available	
Te	errestrial	Not Available	

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste 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 container.	
Product Containers	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 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

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Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Listed: Sodium Phosphate Tribasic, Dodecahydrate
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
SARA 312	Acute Health Hazard
SARA 313	Not Listed
WHMIS Canada	Class E: Corrosive material.

16. OTHER INFORMATION

Revision	Date
Original	08/24/2012
Revision 1	10/29/2015
Revision 2	10/25/2021

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