

Safety Data Sheet

Product No. 19545 Sodium Phosphate, Dibasic

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Section 1: Product and Company Identification

Product Name: Sodium Phosphate, Dibasic

Synonym: Disodium Orthophosphate Heptahydrate

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

Classification of the substance or mixture

Signal Word: **WARNING**

GHS Categories

GHS07 – Acute Toxicity	Oral:	Category 2
	Skin Irritation:	Category 2
	Eye Irritation:	Category 2A
Specific Target Organ Toxicity	Single Exposure:	Category 3

Label elements

GHS Pictograms:



GHS07

Hazard-determining components of labeling:

Disodium Orthophosphate Heptahydrate

Hazard Statements:

H302	Harmful if swallowed
H315	Causes skin irritation.
H319	Causes serious eye irritation
H335	May cause respiratory irritation.

Precautionary Statements

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P302 + P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for 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.
P332 + P313 If skin irritation occurs: Get medical advice/attention
P362 + P364 Take off contaminated clothing and wash it before reuse.
P337 + P313 If eye irritation persists: Get medical advice/attention
P321 Specific treatment (see on this label).

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Health Effects:

NFPA Hazard Rating: Health: 2; Fire: 0; Reactivity: 0
HMIS® Hazard Rating: Health: 2; Fire: 0; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Other hazards

Results of PBT and vPvB assessment: A Chemical Safety Assessment has not been carried out.

PBT: Not applicable

vPvB: Not applicable

Section 3: Composition / Information on Ingredients

Hazardous component: Sodium Phosphate, Dibasic
Synonyms: Disodium Orthophosphate Heptahydrate
% w/w: 100%
Chemical Formula: Na_2HPO_4
CAS No.: 7782-85-6
EC No.: 231-448-7
Molecular weight: 268.07 g/mol

Section 4: First Aid Measures

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing: Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

- No further relevant information available

Indication of any immediate medical attention and special treatment needed:

- No further relevant information available

Section 5: Fire Fighting Measures

Extinguishing media:

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for firefighters:

Protective equipment:

No special measures required

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Not required.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections:

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

Protective Action Criteria for Chemicals:

PAC-1: Substance not listed

PAC-2: Substance not listed

PAC-3: Substance not listed

Section 7: Handling and Storage

Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities.

Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s):

- No further relevant information available.
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Section 8: Exposure Controls / Personal Protection

Additional information about design of technical systems:

No further data; see item 7.

Control parameters:

- Components with limit values that require monitoring at the workplace: - Not required

Additional information: The lists that were valid during the creation were used as basis.

Exposure control and personal protective equipment:

- General protective and hygienic measures.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

Breathing equipment:

- In case of brief exposure or low pollution use respiratory filter device.
- In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Section 9 Physical and Chemical Properties

Appearance	Solid
Color	White
Odor	Odorless
Odor threshold	No data available
pH	Not applicable
Melting point/range	118.4°F / 48°C
Boiling point/range	No data available
Flash point	Not applicable
Flammability (solid, gas)	Product is not flammable
Decomposition temperature	No data available
Auto-ignition	No data available
Danger of explosion	Product does not present an explosion hazard
Upper explosion/flammability limit	No data available
Lower explosion/flammability limit	No data available
Vapor pressure	Not applicable
Density at 20°C (68°F)	1.679 g/cm ³ (14.01126 lbs/gal)
Relative density	No data available
Vapor density	Not applicable
Evaporation rate	Not applicable
Solubility in H ₂ O	Soluble
Partition coefficient (n-octanol/water)	No data available
Viscosity, dynamic	Not applicable
Viscosity, kinematic	Not applicable
VOC content	0.00%
Solids content	100.0%

Section 10: Stability and Reactivity

Reactivity:

- No further relevant information available.

Chemical stability:

Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications.

Possibility of hazardous reactions:

- No dangerous reactions known.

Conditions to avoid:

- No further relevant information available.

Incompatible materials:

- No further relevant information available.

Hazardous decomposition products:

- No dangerous decomposition products known.
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Section 11: Toxicological Information

Acute toxicity:

Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.

Sensitization:

- No sensitizing effects known.

Carcinogenicity:

IARC: Substance is not listed.

NTP: Substance is not listed.

OSHA: Substance is not listed.

Section 12: Ecological Information

Toxicity:

Aquatic toxicity:

- No further relevant information available.

Persistence and degradability:

- No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential:

- No further relevant information available.

Mobility in soil:

- No further relevant information available.

General notes:

- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

- PBT: Not applicable.
- vPvB: Not applicable.

Other adverse effects:

- No further relevant information available

Section 13 Disposal Considerations

Waste treatment methods:

Recommendation: Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14: Transportation Information

International Regulations

IATA-DGR Not regulated

IMDG-Code Not regulated

Domestic Regulations

DOT Not regulated

Special precautions for user

The transport classification(s) provided herein are for information purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet (SDS). Transportation classifications may vary by mode of transportation, package size, and variations in regional or country regulations.

Section 15: Regulatory Information

SARA 355-Extremely hazardous substances: Substance is not listed

SARA 313-Specific toxic chemical listings: Substance is not listed

TSCA (Toxic Substances Control Act): Substance is not listed

Hazardous Air Pollutants: Substance is not listed

California Prop. 65 Substance is not listed

Carcinogenic categories:

- EPA (Environmental Protection Agency) Substance is not listed
 - TLV (Threshold Limit Value) Substance is not listed
 - NIOSH (National Institute for Occupational Safety and Health) Substance is not listed
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Section 16: Other Information

Full text of other abbreviations

ACGIH: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2: USA. Occupational Exposure Limits (OSHA) - Table Z-2
US WEEL: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA: 8-hour, time-weighted average
ACGIH / STEL: Short-term exposure limit
NIOSH REL/TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA: 8-hour time weighted average
OSHA Z-2/TWA: 8-hour time weighted average
OSHA Z-2/CEIL: Acceptable ceiling concentration
OSHA Z-2/Peak: Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
US WEEL/TWA: 8-hr TWA

AICS - Australian Inventory of Chemical Substances;

AIIC - Australian Inventory of Industrial Chemicals;

ASTM - American Society for the Testing of Materials;
bw - Body weight;
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act;
CMR - Carcinogen, Mutagen or Reproductive Toxicant;
DIN - Standard of the German Institute for Standardization;
DOT - Department of Transportation;
DSL - Domestic Substances List (Canada);
EC_x - Concentration associated with x% response;
EHS - Extremely Hazardous Substance;
EL_x - Loading rate associated with x% response;
EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan);
ErC_x - Concentration associated with x% growth rate response;
ERG - Emergency Response Guide;
GHS - Globally Harmonized System;
GLP - Good Laboratory Practice;
HMIS - Hazardous Materials Identification System;
IARC - International Agency for Research on Cancer;
IATA - International Air Transport Association;
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC₅₀ - Half maximal inhibitory concentration;
ICAO - International Civil Aviation Organization;
IECSC - Inventory of Existing Chemical Substances in China;
IMDG - International Maritime Dangerous Goods;
IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan);
ISO - International Organization for Standardization;
KECI - Korea Existing Chemicals Inventory;
LC₅₀ - Lethal Concentration to 50 % of a test population;
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose);
MARPOL - International Convention for the Prevention of Pollution from Ships;
MSHA - Mine Safety and Health Administration;
n.o.s. - Not Otherwise Specified;
NFPA - National Fire Protection Association;
NO(A)EC - No Observed (Adverse) Effect Concentration;
NO(A)EL - No Observed (Adverse) Effect Level;
NOELR - No Observable Effect Loading Rate;
NTP - National Toxicology Program;
NZIoC - New Zealand Inventory of Chemicals;
OECD - Organization for Economic Co-operation and Development;
OPPTS - Office of Chemical Safety and Pollution Prevention;
PBT - Persistent, Bioaccumulative and Toxic substance;
PICCS - Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR - (Quantitative) Structure Activity Relationship;
RCRA - Resource Conservation and Recovery Act;
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals;
RQ - Reportable Quantity;
SADT - Self-Accelerating Decomposition Temperature;
SARA - Superfund Amendments and Reauthorization Act;
SDS - Safety Data Sheet;
TCSI - Taiwan Chemical Substance Inventory;
TSCA - Toxic Substances Control Act (United States);
UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

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