

Revision Date: 08-07-2015

SAFETY DATA SHEET

1. Identification

Product identifier: Sodium Phosphate, Tribasic, 12-Hydrate

Other means of identification

Synonyms: Trisodium Phosphate, Dodecahydrate

Product No.: 7940, 3840, 3836

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax: 610-573-2610

Contact Person: Environmental Health & Safety E-mail: info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada CHEMTREC: 1-703-527-3887 outside US and Canada

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 1B
Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

Precautionary Statement

Prevention: Wash hands thoroughly after handling. Wear protective gloves/protective

SDS_US - SDSMIX000193



Revision Date: 08-07-2015

clothing/eye protection/face protection. Do not breathe

dust/fume/gas/mist/vapors/spray.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or

hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE		10101-89-0	98 - 100%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if

you feel unwell.

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention

immediately. Wash contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: In case of fire and/or explosion do not breathe fumes.



Revision Date: 08-07-2015

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away. Avoid

inhalation of dust. Avoid contact with spilled material.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Avoid inhalation of dust. Wash thoroughly after handling. Use personal

protective equipment as required. Avoid contact with eyes. Avoid contact

with skin.

Conditions for safe storage,

including any incompatibilities: Keep containers tightly closed. Store in cool, dry place. Store in a well-

ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering

Controls

No data available.



Revision Date: 08-07-2015

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

Eye/face protection: Wear safety glasses with side shields (or goggles). Use tight fitting goggles

if dust is generated.

Skin Protection

Hand Protection: Wear protective gloves.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Observe good industrial

hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product.

Take off contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state: solid

Form: Crystalline Powder.

Color: White Odor: Odorless

Odor threshold:

No data available.

No data available.

Melting point/freezing point: 73 °C Initial boiling point and boiling range: 100 °C

Flash Point: not applicable

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water: 283 g/l (20 °C)
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Other information



Revision Date: 08-07-2015

Molecular weight: 380.12 g/mol (H3O4P.12H2O.3Na)

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

Hazardous polymerization does not occur.

Conditions to Avoid: Reacts violently with strong acids. Heat, sparks, flames. Contact with

incompatible materials.

Incompatible Materials: Acids. Strong oxidizing agents.

Hazardous Decomposition

Products:

Sodium oxides oxides of phosphorus

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 7,400 mg/kg

Dermal

Product: LD 50 (Rabbit): \geq 2,000 mg/kg

Inhalation

Product: LD 50 (Rat, 1 h): estimated 2.16 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Causes severe skin burns.

Serious Eye Damage/Eye Irritation

Product: Causes serious eye damage.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.



Revision Date: 08-07-2015

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:
None known.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard

Product: Not classified

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

PHOSPHORIC ACID,
TRISODIUM SALT,
DODECAHYDRATE

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 88.3 mg/l Mortality
LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 28.5 mg/l Mortality
LC 50 (Zambezi barbel (Clarias gariepinus), 96 h): 748.1695 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation



Revision Date: 08-07-2015

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: The product may affect the acidity (pH-factor) in water with risk of harmful

effects to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.

14. Transport information

DOT

UN Number: UN 3262

UN Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (SODIUM PHOSPHATE,

TRIBASIC, 12-HYDRATE)

Transport Hazard Class(es)

Class(es): 8
Label(s): 8
Packing Group: III

Marine Pollutant: Not a Marine Pollutant

Special precautions for user: -

IMDG

UN Number: UN 3262

UN Proper Shipping Name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.(SODIUM

PHOSPHATE, TRIBASIC, 12-HYDRATE)

Transport Hazard Class(es)

Class(es): 8
Label(s): 8

EmS No.: F-A, S-B

Packing Group:

Marine Pollutant: Not a Marine Pollutant

Special precautions for user: -



Revision Date: 08-07-2015

IATA

UN Number: UN 3262

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (SODIUM PHOSPHATE,

TRIBASIC, 12-HYDRATE)

Transport Hazard Class(es):

Class(es): 8 Label(s): 8

Marine Pollutant: Not a Marine Pollutant

Packing Group: II Special precautions for user: –

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity
PHOSPHORIC ACID. 5000 lbs.

PHOSPHORIC ACID, TRISODIUM SALT,

DODECAHYDRATE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u> <u>Reportable quantity</u>

PHOSPHORIC ACID, 5000 lbs.

TRISODIUM SALT, DODECAHYDRATE

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

PHOSPHORIC ACID, 10000 lbs

TRISODIUM SALT, DODECAHYDRATE

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

<u>Chemical Identity</u> <u>Reportable quantity</u>

SODIUM PHOSPHATE, Reportable quantity: 5000 lbs.

TRIBASIC

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.



Revision Date: 08-07-2015

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE

US. Massachusetts RTK - Substance List

Chemical Identity

PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE

US. Rhode Island RTK

Chemical Identity

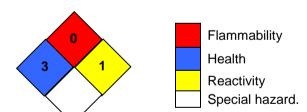
PHOSPHORIC ACID, TRISODIUM SALT, DODECAHYDRATE

Inventory Status:

Canada DSL Inventory List: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Japan ISHL Listing: Not in compliance with the inventory. Japan Pharmacopoeia Listing: Not in compliance with the inventory. Australia AICS: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Philippines PICCS: On or in compliance with the inventory On or in compliance with the inventory New Zealand Inventory of Chemicals:

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 08-07-2015

Revision Date: No data available.

Version #: 1.1

Further Information: No data available.



Disclaimer:

Version: 1.1

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