



SAFETY DATA SHEET

Preparation Date: 8/6/2015 Revision date 05/09/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: S1770

Product Name: SODIUM PHOSPHATE DIBASIC, DODECAHYDRATE

Other means of identification

Synonyms: Dibasic Sodium Phosphate

Phosphoric acid, disodium salt, dodecahydrate Sodium monohydrogen phosphate dodecahydrate

CAS #: 10039-32-4 RTECS # TC5725000 CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Food Additive. water treatment. Research and Development. Laboratory reagent.

Manufacture of substances.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number

Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

| Not classified | | | | | | |
|----------------|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Hazards not otherwise classified (HNOC)

Not Applicable

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3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | Weight-% |
|--|------------|----------|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | 100 |

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation

May cause eye irritation It may cause dermatitis May cause purging

May cause digestive (gastrointestinal) tract irritation

May affect behavior/central nervous system

Tetany

May cause hypophosphatemia

May cause irritiation to mucous membranes

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

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Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Phosphorus

oxides. Sodium oxides.

Specific hazards May be combustible at high temperatures. Fire may

produce irritating and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

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Strong acids
Strong bases
Strong oxidizing agents
Alkalis

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Component | CAS No | OSHA | NIOSH | ACGIH | AIHA WEEL |
|------------------------|------------|------|-------|-------|-----------|
| Sodium Phosphate, | 10039-32-4 | None | None | None | None |
| Dibasic, Dodecahydrate | | | | | |

Canada

| Component | CAS No | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|------------------------|------------|------------------|------------------------------|------------------|-----------------|
| Sodium Phosphate, | 10039-32-4 | None | None | None | None |
| Dibasic, Dodecahydrate | | | | | |

Australia and Mexico

| Compo | onent | CAS No | Australia | Mexico |
|-----------------------|----------------------|------------|-----------|--------|
| Sodium Phosphate, Dib | basic, Dodecahydrate | 10039-32-4 | None | None |

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

Respiratory protection: Wear respirator with dust filter. Be sure to use an approved/certified respirator or

equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: S1770 Product name: SODIUM Page 4/11

Physical state: Appearance: Color:

Solid Crystalline. Colorless. White.

Odor: **Taste Formula**

Odorless. No information available. Na2HPO4.12H2O

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F): No information available

no data available 358.14

Flash Point Tested according to:

Autoignition Temperature (°C/°F):

Not available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Lower Explosion Limit (%):

Vapor pressure @ 20°C (kPa):

No information available

VOC content (g/L):

Viscosity:

34°C/93°F No information available

Boiling point/range(°C/°F): **Bulk density:** Density (q/cm3):

No information available No information available 1.5

Specific gravity:

No information available 8.4-9.6 (35.8q/L)

Evaporation rate: Vapor density:

No information available No information available

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

No information available

Miscibility: Solubility:

Easily soluble in cold water No information available

Easily soluble in hot water

Insoluble in Alcohol

Solubility in water: 35.8 g/l at 20

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong acids Reactive with oxidizing agents Reacts with strong bases Loses 12 H2O @ 100 deg. C.

Loses 5 moles of water on exposure to air at ordinary temperature.

Incompatible with magnesium, alkaloids, antipyrine, chloral hydrate, lead acetate, pyrogallol, resorcinol, strong mineral acids, strong organic acids

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong acids

Strong bases

Strong oxidizing agents

Alkalis

Hazardous decomposition Carbon oxides. Sodium oxides. Phosphorus oxides.

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products:

Other Information

Corrosivity: Non-corrosive in the presence of glass

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Phosphate, Dibasic, Dodecahydrate
CAS No 10039-32-4

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 430 mg/kg intreaperitoneal LD50 mouse

Product Information

LD50/oral/rat =

Value - Acute Tox = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Product code: S1770 Product name: SODIUM PHOSPHATE DIBASIC.

DODECAHYDRATE

Skin Contact: May cause skin irritation. It may cause dermatitis.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of the respiratory tract and mucous membranes irritation.

Ingestion May cause irritation of the digestive tract and may cause purging. It is slowly

absorbed. Expected to be a low ingestion hazard for usual industrial handling. Ingestion of large doses may affect behavior/central nervous system (tetany). However, if a significant amount of phosphate is absorbed, hypophosphatemia will occur. Severe hypophosphatemia may result in hypocalcemia and tetany.

Cardiovasular, respiratory, neurologic, and musculoskeletal effects may occur

secondary to hypernatremia, hypophosphatemia, and hypocalcemia.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged skin contact may cause skin irritation and/or dermatitis.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

| Component | CAS No | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--|------------|------------|------------------------|------------|---------------------------|---|---|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product code: S1770 Product name: SODIUM Page 7 / 11

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

| Component | CAS No | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|----------------------------|------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Sodium Phosphate, Dibasic, | 10039-32-4 | None | None | None | None |
| Dodecahydrate | | | | | |

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group

No information available
No information available

Subsidiary Risk: No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements
No information available
No information available
No information available
No information available

Response

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

| Component | CAS No | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | China IECSC | Australia (AICS) | EINECS-No. |
|-------------------------------|------------|------------|-------------|---------------------|--------------------|-------------|---------------------|-------------|
| Sodium Phosphate, Dibasic, | 10039-32-4 | Not Listed | Not present | Present | Present (1)-497 | Present | Present | Not present |
| Dodecahydrate | | | | | , , | | | |

U.S. Regulations

Sodium Phosphate, Dibasic, Dodecahydrate

Massachusetts RTK: Present

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present New York Release Reporting - List of Hazardous Substances:

5000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 5000lbfinal RQ

2270kgfinal RQ

California Directors List of Hazardous Substances: Present

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California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Component | CAS No | Carcinogen | Developmental Toxicity | Male | Female |
|--|------------|------------|------------------------|--------------|--------------|
| | | | | Reproductive | Reproductive |
| | | | | Toxicity | Toxicity: |
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Component | CAS No | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|--|--------|---|---|--|------------------------------------|--|
| Sodium Phosphate, Dibasic, Dodecahydrate | | 5000 lb final RQ 2270 kg final RQ | None | None | None | None |

U.S. TSCA

| Component | | ` , | TSCA 8(d) -Health and Safety Reporting |
|---|------------|----------------|---|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | Not Applicable | Not Applicable |

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

| Component | CAS No | Canada (DSL) | Canada (NDSL) |
|----------------------------|------------|--------------|---------------|
| Sodium Phosphate, Dibasic, | 10039-32-4 | Not Listed | Not Listed |
| Dodecahydrate | | | |

| Component | CAS No | CEPA Schedule I - Toxic Substances | |
|--|------------|--------------------------------------|--|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | Not listed | |
| Component | CAS No | CEPA - 2010 Greenhouse Gases Subject | |
| | | to Mandatory Reporting | |
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | Not listed | |

EU Classification

EU GHS - SV - CLP 1272/2008

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| Component | CAS No | EU GHS - SV - CLP (1272/2008) |
|--|------------|-------------------------------|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | |

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

| Component | CAS No | Classification | Concentration Limits: | Safety Phrases |
|---|------------|----------------|--------------------------|----------------|
| Sodium Phosphate, Dibasic, Dodecahydrate | 10039-32-4 | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date:8/6/2015Revision date05/09/2019Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: \$1770

Product name: SODIUM PHOSPHATE DIBASIC, DODECAHYDRATE