



# SAFETY DATA SHEET

Preparation Date: 1/9/2015 Revision Date: 6/14/2018 Revision Number: G2

# 1. IDENTIFICATION

Product identifier

Product code: SO130

Product Name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP

Other means of identification

**Synonyms:** Dihydrogen Sodium Phosphate;

Sodium dihydrogen phosphate monohydrate;

Sodium Biphosphate monohydrate;

sodium dihydrogen orthophosphate monobasic;

Sodium Phosphate, Monobasic,

Hydrate; Monosodium Phosphate, monohydrate

CAS #: 10049-21-5
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
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 numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

#### 2. HAZARDS IDENTIFICATION

# Classification

This chemical is not considered hazardous according to 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

Product code: SO130 Product name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP,

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Phosphate, Monobasic,	10049-21-5	100
Monohydrate		

### 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.

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

persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give

oxygen. Obtain 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 eye/skin irritation

Causes digestive (gastrointestinal) tract irritation

Vomiting Abdominal pain May cause diarrhea

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.

No information available. **Unsuitable Extinguishing Media:** 

Product code: SO130 Product name: MONOBASIC 2/11

> SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP.

# Specific hazards arising from the chemical

**Hazardous Combustion Products:**No information available.

Specific hazards: No information available.

**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. Avoid contact with skin, eyes and clothing. Use personal

protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let this chemical enter

the environment. Do not let product enter drains.

# 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. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. 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:**

Hygroscopic. 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:**

Acids Bases

Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### National occupational exposure limits

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Phosphate,	10049-21-5	None	None	None	None
Monobasic,					
Monohydrate					

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	None	None

### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: SO130

Product name: MONOBASIC
SODIUM PHOSPHATE,
MONOHYDRATE, GRANULAR, USP.

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Physical state: Appearance: Color:

Solid Granular. Crystals. Crystalline. White.

Odor:TasteFormula:Odorless.No information available.NaH2PO4.H2O

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not applicable No information available No information available

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

No information available No information available No information available

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

No information available 
No information available 
No information available

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

2.04 No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility: No information available Soluble in Water

# 10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids Reacts with strong bases Reactive with oxidizing agents

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Exposure to moisture. Exposure to moist air. Incompatible materials.

Incompatible Materials: Acids

Bases

Strong oxidizing agents

Hazardous decomposition

products:

Sodium oxides. Phosphorus oxides.

Other Information

Corrosivity: No information available

Product code: SO130 Product name: MONOBASIC 5 / 11

SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP,

BP

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Inhalation.

#### **Acute Toxicity**

# **Component Information**

Sodium Phosphate, Monobasic, Monohydrate
CAS-No. 10049-21-5

**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 = No information available

#### **Product Information**

LD50/oral/rat =

**VALUE-** Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal** = 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

Product code: SO130

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

Ingestion It is considered a low hazard for usual industrial handling because phosphates are

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**Product name:** MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP,

BP

slowly and incompletely absorbed in the intestinal tract. The most frequently observed effect is gastrointestinal irritation with abdominal pain and cramping, vomiting, diarrhea. If ingestion of large doses occurs and if a significant amount of phosphate is absorbed, severe electrolyte (mineral) disturbances (imbalances) can occur resulting in hyperphosphatemia, hypocalcemia, hyperkalemia, hypernatremia and hypomagnesemia may occur. Symptoms may include anorexia, increased thirst (dehydration), metabolic acidosis, decrease in the amount of urine or in frequency of urination, renal failure, troubled breathing and shortness of breath, tetany/carpopedal spasms, seizures/convulsions, tremor, dizziness, fatigue, lethargy, confusion, changes in mood such as anxiety, depression or irritability, weakness, muscle cramps, numbness or tingling, pain around the mouth or lips, hands or feet, weakness in the hands or feet, bradycardia (slow heartbeat) or tachycardia (fast heartbeat), dysrhythmias (cardiac arrhythmias), hypotension, cardiac arrest, hyperpyrexia.

**Aspiration hazard** No information available.

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

Chronic Toxicity No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic
						Substances	Substances
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	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 Pevelopmental Effects: No information available No information available 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** 

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**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

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

Number

Marine PollutantNo data availableDOT 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
No information available
No Information available
No information available

ADR

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
No information available
No information available
No information available

Subsidiary Risk: No information available

IMO / IMDG

UN-No: Not Regulated

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

**RID** 

UN-No: Not Regulated

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

No information available
No information available
No information available

**ICAO** 

UN-No: Not Regulated

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

No information available
No information available
No information available

**IATA** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

# **15. REGULATORY INFORMATION**

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Phosphate,	10049-21-5	Not listed;	Not present	Present	Present	Present	Present	Not present
Monobasic,		Sodium			(1)-497			
Monohydrate		Phosphate,						
		monobasic,						
		monohydrate(						
		CAS						
		no.10049-21-5						
		)is exempt						
		from						
		TSCA						
		8(b)Inventory						
		listing since it						
		is a hydrate.						
		However, the						
		anhydrous						
		form (CAS						
		no.7558-80-7)						
		is listed as						
		ACTIVE on						
		the TSCA						
		8(b)Inventory						

#### **U.S. Regulations**

#### 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)

Components	CAS-No.	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	Not Listed	Not Listed	Not Listed	Not Listed

### **CERCLA/SARA**

Components	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, Monobasic, Monohydrate	10049-21-5	None	None	None	None	None

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	Not Applicable	Not Applicable

# Canada

# WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

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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

# WHMIS 1988 Hazard Class

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Phosphate, Monobasic,	10049-21-5	Not Listed	Not Listed
Monohydrate			

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	

#### EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5		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:1/9/2015Revision Date:6/14/2018Prepared 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: SO130 Product name: MONOBASIC 11 / 11