

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

## \* 1 Identification

### • Product identifier

- Trade name: S-PO4/1-40.0
- Article number: 827529Y
- Description: Phosphate standard solution 40 mg/l PO4-P
- Application of the substance / the preparation: Calibration solution

### • Details of the supplier of the safety data sheet

#### • Manufacturer/Supplier:

YSI  
1725 Brannum Lane  
Yellow Springs, OH 45387  
USA  
phone: +1 937-767-7241

- Information department: Email: [MSDSinfo@ysi.com](mailto:MSDSinfo@ysi.com)
- Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## 2 Hazard(s) identification

### • Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

### • Label elements:

- GHS label elements: Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard statements: Void

### • Classification system:

- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **Other hazards** No further relevant information available.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

(Contd. on page 2)

— US —

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

Trade name: S-PO4/1-40.0

(Contd. of page 1)

## 3 Composition/information on ingredients

- **Mixture**
- **Description:**  
Mixture: consisting of the following components.  
Water, potassium dihydrogen phosphate (<0.02 %)
- **Dangerous components:** Void

## 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air.
- **After skin contact:** Rinse skin with water/shower.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Get medical advice/attention if you feel unwell.
- **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.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
No special measurements required when handled properly.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Wash off with water.
- **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:		
7778-77-0	potassium dihydrogenorthophosphate	9.6 mg/m <sup>3</sup>
• PAC-2:		
7778-77-0	potassium dihydrogenorthophosphate	110 mg/m <sup>3</sup>
• PAC-3:		
7778-77-0	potassium dihydrogenorthophosphate	630 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.

(Contd. on page 3)

— US —

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

Trade name: S-PO4/1-40.0

(Contd. of page 2)

- Information about protection against explosions and fires: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- 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: Store tightly sealed at temperatures between 15 °C and 25 °C.
- **Specific end use(s)** No further relevant information available.

## 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:  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- **Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:  
Avoid contact with the eyes and skin.  
Take off contaminated clothing and wash it before reuse.  
Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands: Protective gloves recommended for frequent or long-term skin contact.
- Material of gloves Nitrile rubber, NBR
- Eye protection: Safety glasses

## 9 Physical and chemical properties

• <b>Information on basic physical and chemical properties</b>	
• General Information	
• Appearance:	
Form:	Fluid
Color:	Colorless
• Odor:	Odorless
• pH-value at 20 °C (68 °F):	6 - 7
• Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
• Flash point:	Not applicable.
• Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
• Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
• Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.35 lbs/gal)
• Solubility in / Miscibility with	
Water:	Fully miscible.

(Contd. on page 4)

— US —

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

Trade name: S-PO4/1-40.0

(Contd. of page 3)

- |                            |  |
|----------------------------|--|
| • Viscosity:               |  |
| Dynamic:                   | Not determined.                            |
| Kinematic:                 | Not determined.                            |
| • <b>Other information</b> | No further relevant information available. |

## 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.  
Do not heat.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

## 11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:  
The product is not subject to classification according to internally approved calculation methods for preparations:
- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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.
- **Additional ecological information:**
- General notes: Not hazardous for water.
- **Additional ecological information:** Not hazardous for water.
- **Results of PBT and vPvB assessment** Not applicable.
- PBT: Not applicable.
- vPvB: Not applicable.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

Trade name: S-PO4/1-40.0

(Contd. of page 4)

- **Other adverse effects**
- General notes: Not hazardous for water.

## 13 Disposal considerations

- **Waste treatment methods**
- Recommendation:  
Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.
- **Uncleaned packagings:**
- Recommendation:  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

## 14 Transport information

• <b>UN-Number</b>	
• DOT, ADR/RID, ADN, IMDG, IATA	Void
• <b>UN proper shipping name</b>	
• DOT, ADR/RID, ADN, IMDG, IATA	Void
• <b>Transport hazard class(es)</b>	
• DOT, ADR/RID, ADN, IMDG, IATA	
• Class	Void
• <b>Packing group</b>	
• DOT, ADR/RID, IMDG, IATA	Void
• <b>Environmental hazards:</b>	Not applicable.
• <b>Special precautions for user</b>	Not applicable.
• <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
• <b>UN "Model Regulation":</b>	Void

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Sara

• Section 355 (extremely hazardous substances):	None of the ingredients is listed.
• Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	All components have the value ACTIVE.
• Hazardous Air Pollutants	None of the ingredients is listed.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

Trade name: S-PO4/1-40.0

(Contd. of page 5)

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Cancerogenity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

- Date of preparation / last revision 08/01/2019 / -

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- \* Data compared to the previous version altered.