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Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

Reviewed on 08/01/2019

¹ I Identification

Product identifier

- Trade name: C-PO4/1-1
- Article number: 827533Y
- Description: Alyza IQ Cleaning solution
- Application of the substance / the preparation: Cleaning of analyzers

• 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
- Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

2 Hazard(s) identification

• Classification of the substance or mixture



Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

• Label elements:

- GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms: GHS05
- Signal word: Danger
- Hazard-determining components of labeling:
- Sodium hydroxide
- Hazard statements:
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- Precautionary statements:
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Trade name: C-PO4/1-1

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2 - < 5%

• Classification system:

• NFPA ratings (scale 0 - 4)



• HMIS-ratings (scale 0 - 4)

HEALTH 3 Health = 3 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.

3 Composition/information on ingredients

• Mixture

• Description:

Mixture: consisting of the following components.

Water, sodium hydroxide, ethylenediaminetetraacetic acid disodium salt

• Dangerous components:

1310-73-2 Sodium hydroxide

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air or oxygen; call for doctor.
- After skin contact:

Wash with plenty of water.

Take off immediately all contaminated clothing and wash it before reuse.

Call a doctor immediately.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing:

Make victim drink water immediately (2 glasses at most).

Do not induce vomiting (risk of perforation)

Call a doctor immediately.

Do not attempt to neutralize.

- 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 Formation of hazardous gases or vapors is possible.
- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device. Wear chemical protective clothing in the case of heavy toxic load.

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(Contd. of page 2) • Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear personal protective equipment (see section 8).
- Environmental precautions:
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Wash off residuals 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:	
1310-73-2 Sodium hydroxide	0.5 mg/m ³
• PAC-2:	
1310-73-2 Sodium hydroxide	5 mg/m ³
• PAC-3:	
1310-73-2 Sodium hydroxide	50 mg/m ³

7 Handling and storage

• Handling:

- Precautions for safe handling Wear personal protective equipment (see section 8)
- 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: Do not use light alloy receptacles.
- Information about storage in one common storage facility: Do not store together with acids.
- Further information about storage conditions: Store tigthly 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:

1310-73-2 Sodium hydroxide

PEL Long-term value: 2 mg/m³

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

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

Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

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Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

• Breathing equipment: Use suitable respiratory protective device only when aerosol or mist is formed.

• Recommended filter device for short term use: Combination filter B-P2

• Protection of hands: Protective gloves

• Material of gloves Nitrile rubber, NBR

• Eye protection: Safety glasses

9 Physical and chemical properties

Information on basic physical and chemical properties		
General Information		
• Appearance:		
Form:	Liquid	
Color:	Colorless	
• Odor:	Odorless	
• pH-value at 20 °C (68 °F):	13	
Change in condition		
Melting point/Melting range:	Undetermined.	
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):	1.08 g/cm ³ (9.01 lbs/gal)	
• Solubility in / Miscibility with		
Water:	Fully miscible.	
• Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
 Other information 	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.

• Possibility of hazardous reactions Formation of hydrogen possible with metals and alloys (risk of explosion).

• Conditions to avoid No further relevant information available.

Incompatible materials:

Acids

Metals

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11 Toxicological information

• Information on toxicological effects

• Acute toxicity:

- LD/LC50 values that are relevant for classification:
- 1310-73-2 Sodium hydroxide

Oral LD50 2000 mg/kg (Rat)

- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories

• IARC (International Agency for Research on Cancer)	• IARC	(International	Agency for	Research on	Cancer)
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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: Detrimental effect due to shift of pH value.
- Results of PBT and vPvB assessment Not applicable.
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects
- 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.

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.

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US —

Trade name: C-PO4/1-1

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. • Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information		
• UN-Number • DOT, ADR/RID, IMDG, IATA	UN1824	
• UN proper shipping name		
• ADR/RID	NATRIUMHYDROXIDLÖSUNG	
• IMDG, IATA	SODIUM HYDROXIDE SOLUTION	
• Transport hazard class(es)		
• DOT		
OORROSIVE 8		
• Class • Label	8 Corrosive substances 8	
• ADR/RID, IMDG, IATA		
• Class	8 Corrosive substances	
• Label	8	
• Packing group • ADR/RID, IMDG, IATA	II	
• Environmental hazards:		
Marine pollutant:	No	
 Special precautions for user 	Not applicable.	
• Dangar aada (Kamlar):	Warning: Corrosive substances 80	
Danger code (Kemler):EMS Number:	80 F-A,S-B	
Segregation groups	Alkalis	
• Stowage Category	A	
Segregation Code	SG35 Stow "separated from" SGG1-acids	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
• ADR/RID		
• Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
• UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	
	(Contd. on	nor

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Trade name: C-PO4/1-1

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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):	
1310-73-2 Sodium hydroxide	ACTIVE
7732-18-5 water, distilled, conductivity or of similar purity	ACTIVE
Hazardous Air Pollutants	
None of the ingredients is listed.	
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)

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US —

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Met. Corr. 1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1
• * Data compared to the previous version altered.



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Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2019

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⁶ 1 Identification

Product identifier

- Trade name: S-PO4/1-10.0
- Article number: 827528Y
- Description: Phosphate standard solution 10 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
- 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)



Health = 0Fire = 0Reactivity = 0

• HMIS-ratings (scale 0 - 4)

HEALTHImage: 0Image: 0FIREImage: 0Image: 0REACTIVITYImage: 0

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

(Contd. on page 2)

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Trade name: S-PO4/1-10.0

(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 ³
• PAC-2:	
7778-77-0 potassium dihydrogenorthophosphate	110 mg/m ³
• PAC-3:	
7778-77-0 potassium dihydrogenorthophosphate	630 mg/m ³

7 Handling and storage

• Handling:

• Precautions for safe handling No special precautions are necessary if used correctly.

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Trade name: S-PO4/1-10.0

(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 tigthly 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

 Information on basic physical 	and chemical properties
General InformationAppearance:	
Form:	Fluid
Color:	Colorless
• Odor:	Odorless
• pH-value at 20 °C (68 °F):	6 - 7
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	0 °C (32 °F) 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 ³ (8.35 lbs/gal)
• Solubility in / Miscibility with Water:	Fully miscible.
	(Contd. on page 4)

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Trade name: S-PO4/1-10.0

(Contd. of page 3)

• Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
 Other information 	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.

acc. to OSHA HCS

Printing date 08/01/2019

Trade name: S-PO4/1-10.0

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• 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

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

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Trade name: S-PO4/1-10.0

Proposition 65	(Conta: of page 5)
•	
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.	
6 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 & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

• * Data compared to the previous version altered.



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Safety Data Sheet

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Printing date 08/01/2019

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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
- 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)



Health = 0Fire = 0Reactivity = 0

• HMIS-ratings (scale 0 - 4)

HEALTHImage: 0Image: 0FIREImage: 0Image: 0REACTIVITYImage: 0

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

(Contd. on page 2)

acc. to OSHA HCS

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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 ³
• PAC-2:	
7778-77-0 potassium dihydrogenorthophosphate	110 mg/m ³
• PAC-3:	
7778-77-0 potassium dihydrogenorthophosphate	630 mg/m ³

7 Handling and storage

• Handling:

• Precautions for safe handling No special precautions are necessary if used correctly.

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Trade name: S-PO4/1-40.0

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• 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 tigthly 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

Information on basic physical and chemical properties		
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: Boiling point/Boiling range:	0 °C (32 °F) 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 ³ (8.35 lbs/gal)	
• Solubility in / Miscibility with Water:	Fully miscible.	
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• Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
 Other information 	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.

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• 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

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

Proposition 65	(conta: of page 5)
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.]
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• 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 & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- •* Data compared to the previous version altered.