Endress+Hauser

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# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

## **1.1 Product identifier**

Trade name: <u>Standard solution PO4-P</u> Synonym: 1000 mg/l

Article number: CAY248VxxC00AAE

**1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.* 

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen* 

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: 0091-26589391

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Repr. 1B H360FD May damage fertility. May damage the unborn child.



Skin Corr. 1 H314 Causes s

Causes severe skin burns and eye damage. Causes serious eye damage.

# Eye Dam. 1 H318 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: boric acid
Hazard statements
H314 Causes severe skin burns and eye damage. H360FD May damage fertility. May damage the unborn child.
Precautionary statements
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. according to 1907/2006/EC, Article 31

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P310	Immediately call a POISON CENTER/doctor.				
P321	Specific treatment (see on this label).				
P405	Store locked up.				
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.	al			
Additional in	nformation:				
Restricted to professional users.					
2.3 Other hazards					
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.					
Results of PBT and vPvB assessment					
PBT: Not applicable.					
vPvB: Not applicable.					

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

ſ	Dangerous components:				
	CAS: 10043-35-3		1-2.5%		
	EINECS: 233-139-2	🗞 Repr. 1B, H360FD			
		Špecific concentration limit: Repr. 1B; H360: $C \ge 5.5 \%$			
Ī	SVHC				

CAS: 10043-35-3 boric acid

Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

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

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.* 

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: no further information
5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
5.3 Advice for firefighters No further relevant information available.
Protective equipment: Mount respiratory protective device.

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# SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
6.2 Environmental precautions: Dilute with plenty of water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage:

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: *Keep container tightly sealed.* Storage class: *6.1 D* 7.3 Specific end use(s) *No further relevant information available.* 

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

**Ingredients 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 valid during the making were used as basis.

#### 8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

## General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

## **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

## Material of gloves

Nitrile rubber, NBR Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye/face protection**



Tightly sealed goggles

Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties				
General Information				
Physical state	Fluid			
Colour:	Colourless			
Odour:	Odourless			
Odour threshold:	Not determined.			
Melting point/freezing point:	Undetermined.			
Boiling point or initial boiling point and boiling				
range	100 °C			
Flammability	Not applicable.			
Lower and upper explosion limit				
Lower:	Not determined.			
Upper:	Not determined.			
Flash point:	Not applicable.			
Decomposition temperature:	Not determined.			
pH at 20 °C	1-3			
Viscosity:				
Kinematic viscosity	Not determined.			
Dynamic:	Not determined.			
Solubility				
water:	Fully miscible.			
Partition coefficient n-octanol/water (log value)	Not determined.			
Vapour pressure at 20 °C:	23 hPa			
Density and/or relative density				
Density at 20 °C:	1 g/cm³			
Relative density	Not determined.			
Vapour density	Not determined.			

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Safety data sheet

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9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Solvent content:	
Water:	98.0 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** *No further relevant information available.* 

**10.5 Incompatible materials:** No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

LD/LC50 values relevant for classification:

CAS: 10043-35-3 boric acid

Oral LD50 2,660 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Reproductive toxicity May damage fertility. May damage the unborn child.

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## 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

## 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

## General notes:

Not hazardous for water.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

14.1 UN number or ID number	
ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO	
instruments	Not applicable.
UN "Model Regulation":	Void

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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## Trade name: Standard solution PO4-P

Hazard pictograms



Signal word Danger

#### Hazard-determining components of labelling: boric acid Hazard statements H314 Causes severe skin burns and eye damage. H360FD May damage fertility. May damage the unborn child. **Precautionary statements** 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. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

#### National regulations:

## Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 10043-35-3 boric acid

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

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.1 Relevant phrases

H360FD May damage fertility. May damage the unborn child. **16.3 Recommended restriction of use** 

## Department issuing SDS: PCC-TWR

**Contact:** *MSDS.pcc*@endress.com

## Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1: Skin corrosion/irritation – Category 1

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Repr. 1B: Reproductive toxicity - Category 1B

### \* Data compared to the previous version altered.

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