

Page 1/7

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

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

1.1 Product identifier

Trade name: PL 9

· Article number: 109130

· Description: Standard (DIN/NBS) buffer solution pH 9,180 / 9.18

- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
 - · Product category: PC21 Laboratory chemicals
 - · Process category: PROC15 Use as laboratory reagent
 - · Application of the substance / the preparation: Calibration solution
- 1.3 Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany

Tel. +49 881 183-0

- · Further information obtainable from: E-mail: Info.WTW@xylem.com
- 1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

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



GHS08 health hazard

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

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:



GHS08

- Signal word: Danger
- Hazard-determining components of labelling:

Disodium tetraborate, decahydrate

· Hazard statements:

H360FD May damage fertility. May damage the unborn child.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

Additional information:

Restricted to professional users.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

(Contd. of page 1)

· 2.3 Other hazards No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture, consisting of the following components:

Water, disodium tetraborate decahydrate

· Dangerous	components:
CAC. 4202 0C 4	Diag

Index number: 005-011-00-4

CAS: 1303-96-4 Disodium tetraborate, decahydrate EINECS: 215-540-4

🕸 Repr. 1B, H360FD

0.1-≤1%

·SVHC

1303-96-4 Disodium tetraborate, decahydrate

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

· After inhalation: Supply fresh air.

After skin contact:

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

If skin irritation or rash occurs: Get medical advice/attention.

Wash with plenty of water.

Take off contaminated clothing.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Rinse opened eye for several minutes under running water.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

- · 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:

The product is not flammable. Extinguishing agent to suit environment.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Boron oxide

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

- · 6.2 Environmental precautions: No special measures required.
- 6.3 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 section 13.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

(Contd. of page 2)

Wash off residuals with water.

Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wear personal protective equipment (see section 8)

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 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.
- · 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 section 7.

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Store protective clothing separately.

Wash hands before breaks and at the end of work.

- * Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
 - Recommended filter device for short term use: Combination filter B-P2
- · Hand protection Protective gloves
 - · Material of gloves Nitrile rubber, NBR
 - For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber, NBR

Eye/face protection

Safety glasses

Not required.

· Environmental exposure controls Not hazardous for water.

- EU -

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

(Contd. of page 3)

SECTION 9: Physical and chemical properties

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:	0 °C
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	9.18
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	0.952 mPas
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. Not determined.
· · · · · · · · · · · · · · · · · · ·	Not determined.
9.2 Other information	
Appearance:	-
Form:	Fluid
Important information on protection of health and	
environment, and on safety.	Developed in such as If we it is a
Ignition temperature:	Product is not selfigniting.
· Explosive properties: · Change in condition	Product does not present an explosion hazard.
· Evaporation rate	Not determined.
•	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 · Flammable solids	Void 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 gase	
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
<u> </u>	

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

(Contd. of page 4)

- Corrosive to metals
- Desensitised explosives

Void

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: In case of fire, see section 5.

SECTION 11: Toxicological information

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

· Acute toxicity

No quantitative toxicity data are available for this product.

Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

1303-96-4 Disodium tetraborate, decahydrate

 Oral
 LD50
 2660 mg/kg (Rat) (RTECS)

 Dermal
 LD50
 > 2000 mg/kg (Rat) (IUCLID)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity May damage fertility. May damage the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- * STOT-repeated exposure Based on available data, the classification criteria are not met.
- * Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

May impair fertility.

May cause harm to the unborn child.

- · 11.2 Information on other hazards
 - Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

1303-96-4 Disodium tetraborate, decahydrate

EC50 | 1085 - 1402 mg/l, 48 h (Daphnia magna) (IUCLID)

LC50 630 mg/l, 72 h (Carassius auratus) (IUCLID)

- 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 Not applicable.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

(Contd. of page 5)

- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
 - · General notes: Not hazardous for water.
 - Additional ecological information:
 - General notes: Not hazardous for water.
 - · Additional ecological information: Not hazardous for water.

SECTION 13: Disposal considerations

· 13.1 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 packaging:
 - Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informatio	n	
14.1 UN number or ID number		
· ADR/RID, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
· ADR/RID	Void	
	Void	
· ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR/RID, ADN, IMDG, IATA		
Class	Void	
· 14.4 Packing group		
ADR/RID, 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.	
Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Named dangerous substances ANNEX I None of the ingredients is listed.
 - · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 10.08.2023 Version number 7 (replaces version 6) Revision: 10.08.2023

Trade name: PL 9

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**
 - Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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

1303-96-4 Disodium tetraborate, decahydrate

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

SECTION 16: Other information

· Relevant phrases

H360FD May damage fertility. May damage the unborn child.

- Date of previous version: 17.11.2022
- · Version number of previous version: 6
- · 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 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 List of Notified 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

Repr. 1B: Reproductive toxicity - Category 1B

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