

Borate buffer solution - cyanide-containing for non-destructive zinc determination auxiliary solutio							
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		,					
SECTION 1: Identification of the s	ubstance/mixture and of the compa	ny/undertaking					
<u>1.1. Product identifier</u> Borate buffer solution - cyanide-	containing for non-destructive zinc deterr	nination auxiliary solutio					
UFI:	T0VT-V27A-600P-HD85						
1.2. Relevant identified uses of the su	bstance or mixture and uses advised a	<u>igainst</u>					
Professional uses: Public domai Uses advised against	ces as such or in preparations at industri n (administration, education, entertainme						
Do not use for private purposes	(household).						
1.3. Details of the supplier of the safe							
Company name: Street:	AnalytiChem GmbH						
Place:	Stempelstraße 6 D-47167 Duisburg						
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290					
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117					
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerous Exposure, or Accident Call CHEMTREC 1-800-424-9300 Outside USA and Can accepted)	C Day or Night Within USA and Canada	:				
Further Information inapplicable, this product is a mi	xture REACH registration number see se	ection 3					

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302 Acute Tox. 4; H332 Repr. 1B; H360FD Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

potassium cyanide disodium tetraborate decahydrate; borax decahydrate

Signal word:

Danger







F

according to UK REACH Regulation

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Hazard statements		
H302+H332	Harmful if swallowed or if inhaled.	
H360FD	May damage fertility. May damage the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statemer	nts	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P273	Avoid release to the environment.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 Rinse mouth.
Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

No data available

P304+P340

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification (GB CLP Regulation)						
1303-96-4	disodium tetraborate decahydrate; borax decahydrate						
	215-540-4						
	Repr. 1B; H360FD						
151-50-8	potassium cyanide						
	205-792-3	01-2119486407-29					
	Acute Tox. 1, Acute Tox. 1, Acute Tox. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H300 H372 H400 H410 EUH032						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc. Limits, M-factors and ATE					
1303-96-4	3-96-4 215-540-4 disodium tetraborate decahydrate; borax decahydrate					
	inhalation: LC 2500 mg/kg	inhalation: LC50 = > 2,04 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg				
151-50-8	-8 205-792-3 potassium cyanide					
	inhalation: ATE = 0,05 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); inhalation: LC50 = 63 ppm (gases); dermal: LD50 = ca. 11,28 mg/kg; oral: LD50 = >= 7,49 mg/kg Aquatic Chronic 1; H410: M=10					

Further Information

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

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

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe vapour/aerosol.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.



an anarger ene n brana	according to UK REACH Regulation					
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For emergency responders Precautionary statements For eme	ergency responders : Personal protection equipment: see sect	ion 8				
6.2. Environmental precautions Do not allow to enter into surface v	water or drains.					
6.3. Methods and material for containm	ent and cleaning up					
Collect in closed and suitable cont Absorb with liquid-binding materia For cleaning up	e.g. by containment or oil barriers). ainers for disposal. I (sand, diatomaceous earth, acid- or universal binding agents oor according to the environmental legislation.).				
Other information Provide adequate ventilation. Do not breathe dust/fume/gas/mis Wear breathing apparatus if expos						
6.4. Reference to other sections Safe handling: see section 7 Personal protection equipment: see Disposal: see section 13	e section 8					
SECTION 7: Handling and storage						
7.1. Precautions for safe handling						
Advice on safe handling						

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Use extractor hood (laboratory).

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a place accessible by authorized persons only.

Hints on joint storage

national regulations

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1303-96-4	Disodium tetraborate, decahydrate	-	5		TWA (8 h)	WEL
151-50-8	Potassium cyanide (as cyanide)	-	1		TWA (8 h)	WEL
		-	5		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
1303-96-4	disodium tetraborate decahydrate; borax decahyd	Irate					
Worker DNEL	, long-term	inhalation	systemic	6,7 mg/m³			
Worker DNEL	, long-term	dermal	systemic	316,4 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	3,4 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	159,5 mg/kg bw/day			
Consumer DNEL, long-term		oral	systemic	0,79 mg/kg bw/day			
Consumer DN	EL, acute	oral	systemic	0,79 mg/kg bw/day			
151-50-8	potassium cyanide						
Worker DNEL	, long-term	inhalation	systemic	0,94 mg/m³			
Worker DNEL, acute		inhalation	systemic	12,5 mg/m ³			
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day			
Worker DNEL	, acute	dermal	systemic	4,03 mg/kg bw/day			



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PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
1303-96-4	disodium tetraborate decahydrate; borax decahydrate	
Freshwater		2,9 mg/l
Freshwater	(intermittent releases)	13,7 mg/l
Marine wate	r	2,9 mg/l
Micro-organ	isms in sewage treatment plants (STP)	10 mg/l
Soil		5,7 mg/kg
151-50-8	potassium cyanide	
Freshwater		0,001 mg/l
Freshwater	(intermittent releases)	0,0032 mg/l
Marine wate	r	0,0002 mg/l
Freshwater	sediment	0,004 mg/kg
Marine sediment		0,0008 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	0,05 mg/l
Soil		0,007 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and



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under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

hemical properties	
Liquid	
colourless	
odourless	
No data available	
	No data available
	No data available
	No data available
	8,5
	No data available
	completely miscible
	No data available
	1,0158 g/cm³
	No data available
azard classes	
	No data available
	No data available
	Liquid colourless odourless No data available

Gas:

No data available



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Oxidizing properties									
No data available									
Other safety characteristics									
Evaporation rate:	No data available								
Solvent separation test:	No data available								
Solvent content:	0								
Solid content:	0								
Sublimation point:	No data available								
Softening point:	No data available								
Pour point:	No data available								
No data available:									
Viscosity / dynamic:	No data available								
Flow time:	No data available								
Further Information									

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Harmful if swallowed. Harmful if inhaled.

ATEmix calculated

ATE (oral) 400,0 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,000 mg/l



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
1303-96-4	disodium tetraborate d	ecahydrate; t	oorax decahyd	rate				
	oral	LD50 mg/kg	> 2500	Rat	Study report (1996)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1985)	other: This study was carried out to com		
	inhalation (4 h) dust/mist	LC50 mg/l	> 2,04	Rat	Study report (1994)	OECD Guideline 403		
151-50-8	potassium cyanide							
	oral	LD50 mg/kg	>= 7,49	Rat	Clinical and Experimental Toxicology of	A reputable corporate laboratory		
	dermal	LD50 mg/kg	ca. 11,28	Rabbit	J Toxicol – Cut and Ocular Toxicol 13:24	Animals were exposed to a solution of cy		
	inhalation vapour	ATE	0,05 mg/l					
	inhalation dust/mist	ATE mg/l	0,005					
	inhalation (1 h) gas	LC50	63 ppm	Rat	Study report (1981)	OECD Guideline 403		

Irritation and corrosivity

Based on available data, the classification criteria are not met. No data available

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. May damage the unborn child. (disodium tetraborate decahydrate; borax decahydrate) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

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.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the preparation/mixture itself.



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Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
1303-96-4	disodium tetraborate decahydrate; borax decahydrate								
	Acute fish toxicity	LC50 mg/l	79,7	96 h	Pimephales promelas	Study report (2010)	other: ASTM E729-95 Standard Guide for C		
	Acute algae toxicity	ErC50	66 mg/l	72 h	Phaeodactylum tricornutum	Study report (2011)	ISO 10253		
	Acute crustacea toxicity	EC50	102 mg/l	48 h	Ceriodaphnia dubia	Study report (2010)	other: ASTM E729-95 Standard Guide for C		
	Fish toxicity	NOEC	6,4 mg/l	34 d	Danio rerio	Study report (2000)	OECD Guideline 210		
	Algae toxicity	NOEC mg/l	17,5	3 d	Pseudokirchneriella subcapitata	Study report (2000)	OECD Guideline 201		
	Crustacea toxicity	NOEC mg/l	10,8	21 d	Daphnia magna	Study report (2000)	OECD Guideline 211		
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (2001)	OECD Guideline 209		
151-50-8	potassium cyanide								
	Acute fish toxicity	LC50 mg/l	0,1038	96 h	Gasterosteus aculeatus	Study report (2005)	other: ASTM E729-96. Standard Guide for		
	Acute algae toxicity	ErC50 mg/l	0,116	72 h	Pseudokirchneriella subcapitata	Journal of Hazardous Materials 197 (2011	ISO 8692		
	Acute crustacea toxicity	EC50 mg/l	0,21638	48 h	other aquatic crustacea: Acartia tonsa	Study report (2006)	other: ASTM E 729-96: Standard Guide for		
	Algae toxicity	NOEC	0,1 mg/l	10 d	Chlamydomonas sp.	Bulletin 106. Virginia Water resources R	Bartsch, A.F. 1971. Algal Assay Procedur		
	Acute bacteria toxicity	(EC50	2,3 mg/l)	0,5 h	activated sludge, domestic	Acta hydrochim. hydrobiol. 20, 3 (1992)	EU Method C.11		

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow	
1303-96-4	disodium tetraborate decahydrate; borax decahydrate	-1,53	



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BCF

CAS No	Chemical name	BCF	Species	Source
	disodium tetraborate decahydrate; borax decahydrate	0,558	Oncorhynchus nerka	Water Research Vol.
151-50-8	potassium cyanide	3,162		United States Enviro

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Do not empty into drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)

14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

14.4. Fucking group.

Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>

Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>

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14.4. Packing group:	No dangerous good in sense of this transport regulation.			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
 <u>14.6. Special precautions for user</u> No dangerous good in sense of this tra <u>14.7. Maritime transport in bulk according to</u> No dangerous good in sense of this tra 	D IMO instruments			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture			
EU regulatory information Authorisations (REACH, annex XIV): Substances of very high concern, SVH disodium tetraborate decahydrate; bora				
Restrictions on use (REACH, annex XVII): Entry 3, Entry 30, Entry 75				
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to work protection guideline' (94/33/EC). Observe employment re under the Maternity Protection Directive (92/85/EEC) for exper nursing mothers. Observe employment restrictions for women child-bearing age.	estrictions ctant or		
Water hazard class (D):	2 - obviously hazardous to water			
SECTION 16: Other information				

Changes

This data sheet contains changes from the previous version in section(s): 9.

Abbreviations and acronyms

Acute Tox: Acute toxicity Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Repr. 1B; H360FD	
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.



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solutioRevision date: 28.08.2023Product code: 31728Page 13 of 13H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH032Further InformationFurther Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)