

# Ammonium borate solution approx. 1 mol/I Auxiliary solution for METROHM

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Product code: 32371

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

## 1.1. Product identifier

Ammonium borate solution approx. 1 mol/l Auxiliary solution for METROHM

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and 0	Canada: +1 703-741-5970 (collect calls
	accepted)	· ·

## **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

**Pictograms:** 

## Regulation (EC) No 1272/2008

Signal word:





## Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

## **Precautionary statements**

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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	protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
2.3 Other hazards		

### 2.3. Other hazards

No data available

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

# 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

## **Relevant ingredients**

CAS No	Chemical name					
	EC No	Index No	ndex No REACH No			
	Classification (Regulation	(EC) No 1272/2008)				
10043-35-3	boric acid					
	233-139-2 005-007-00-2		00-2 01-2119486683-25			
	Repr. 1B; H360FD					
1336-21-6	Ammonia			1 - < 5 %		
	215-647-6	007-001-01-2	01-2119488876-14			
	Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 2; H314 H400 H411					

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. L	imits, M-factors and ATE			
10043-35-3	233-139-2	233-139-2 boric acid			
	inhalation: LC50 = > 2,12 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3450 mg/kg				
1336-21-6	215-647-6	Ammonia	1 - < 5 %		
	inhalation: LC5 Aquatic Acute 1	0 = 4230 mg/l (vapours); oral: LD50 = 350 mg/kg   STOT SE 3; H335: >= 5 - 100 ; H400: M=10			

# **Further Information**

No data available

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

## 4.1. Description of first aid measures

#### General information No data available

After inhalation

Provide fresh air.

#### After contact with skin

Wash immediately with: Water

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

# After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.



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Protect uninjured eye.

## 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

#### Irritant

**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 In case of fire may be liberated: Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

#### 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

# 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.

## For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

## For containment

#### Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).



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### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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

### 7.1. Precautions for safe handling

## Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

## 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

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. 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

Keep container tightly closed.

## Further information on storage conditions

Store in a cool dry place.

## 7.3. Specific end use(s)

Laboratory chemicals

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

### 8.1. Control parameters

### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7664-41-7	Ammonia, anhydrous	20	14		TWA (8 h)	
		50	36		STEL (15 min)	
10043-35-3	Borate compounds inorganic: boric acid	-	2		TWA (8 h)	



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## **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
10043-35-3	boric acid			
Worker DNEL	, long-term	inhalation	systemic	8,3 mg/m³
Worker DNEL	, long-term	dermal	systemic	392 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	4,15 mg/m³
Consumer DN	EL, long-term	dermal	systemic	196 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,98 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,98 mg/kg bw/day
1336-21-6	Ammonia			
Worker DNEL	, long-term	inhalation	systemic	47,6 mg/m³
Worker DNEL	, acute	inhalation	systemic	47,6 mg/m³
Worker DNEL	, long-term	inhalation	local	14 mg/m <sup>3</sup>
Worker DNEL	, acute	inhalation	local	36 mg/m³
Worker DNEL	, long-term	dermal	systemic	6,8 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	6,8 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	23,8 mg/m <sup>3</sup>
Consumer DN	EL, acute	inhalation	systemic	23,8 mg/m <sup>3</sup>
Consumer DN	EL, long-term	inhalation	local	2,8 mg/m <sup>3</sup>
Consumer DN	EL, acute	inhalation	local	7,2 mg/m <sup>3</sup>
Consumer DN	EL, long-term	dermal	systemic	68 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	68 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	6,8 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	6,8 mg/kg bw/day

CAS No	Substance					
Environment	Environmental compartment Value					
10043-35-3	boric acid					
Freshwater		2,9 mg/l				
Freshwater (	intermittent releases)	13,7 mg/l				
Marine water		2,9 mg/l				
Micro-organisms in sewage treatment plants (STP) 10 mg/l						
Soil		5,7 mg/kg				
1336-21-6	Ammonia					
Freshwater		0,001 mg/l				
Freshwater (intermittent releases) 0,007 mg/l						
Marine water 0,00						

# 8.2. Exposure controls

## Appropriate engineering controls

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



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If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles Wear eye/face protection.

## Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 897 Butoject® Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 240 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 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.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

### **Respiratory protection**

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

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## **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

Physical state:	Liquid	
Colour:	clear	
Odour:	characteristic	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available



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Water solubility:	completely miscible					
Solubility in other solvents						
No data available						
Partition coefficient n-octanol/water:	No data available					
Vapour pressure:	No data available					
Vapour pressure:	No data available					
Density:	~1 g/cm³					
Bulk density:	No data available					
Relative vapour density:	No data available					
9.2. Other information						
Information with regard to physical hazard	classes					
Explosive properties						
No data available						
Sustaining combustion:	No data available					
Self-ignition temperature						
Solid:	No data available					
Gas:	No data available					
Oxidizing properties						
Oxidizing						
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						
No data available						
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

In case of fire may be liberated: SECTION 5: Firefighting measures

## **Further information**

No data available



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## **SECTION 11: Toxicological information**

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

#### Acute toxicity

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
10043-35-3	boric acid						
	oral	LD50 mg/kg	3450	Rat	Toxicology and Applied Pharmacology 23:	other: No data	
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1982)	other: FIFRA	
	inhalation (4 h) dust/mist	LC50 mg/l	> 2,12	Rat	Study report (1997)	OECD Guideline 403	
1336-21-6	Ammonia						
	oral	LD50 mg/kg	350	Rat	Journal of Industrial Hygiene and Toxico	OECD Guideline 401	
	inhalation (1 h) vapour	LC50	4230 mg/l	Mouse	Bull. Environm. Contam. Toxicol, 1982, 2	Assessment of acute inhalation toxicity	

## Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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: 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.

## 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

#### 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

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

CAS No	Chemical name	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method			
10043-35-3	boric acid	boric acid								
	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	109 mg/l	48 h	Ceriodaphnia dubia	Study report (2010)	other: ASTM E729-95 Standard Guide for C			
	Fish toxicity	NOEC mg/l	11,2	32 d	Pimephales promelas	Study report (2010)	other: ASTM E1241-05 Standard Guide for			
	Algae toxicity	NOEC mg/l	17,5	3 d	Pseudokirchneriella subcapitata	Study report (2000)	OECD Guideline 201			
	Crustacea toxicity	NOEC mg/l	25,9	42 d	other aquatic crustacea: Hyalella azteca	Study report (2010)	other: US EPA 2000 Methods for assessing			
	Acute bacteria toxicity	EC50 mg/l()	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (2001)	OECD Guideline 209			
1336-21-6	Ammonia									
	Acute fish toxicity	LC50 3,4 mg/l	0,75 -	96 h	Pimephales promelas	Trans Amer Fish Soc; 112 (5). 1983. 705-	Assessment of acute toxicity in the fath			
	Acute crustacea toxicity	EC50	101 mg/l	48 h	Daphnia magna	Environ. Toxicol. Chem. 5: 443-447 (1986	other: ASTM E729-80			
	Fish toxicity	NOEC	1,2 mg/l	61 d	Oncorhynchus gorbuscha	Fish. Bull. 78(3): 641-648 (1980)	OECD Guideline 210			

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
10043-35-3	boric acid	-1,09
1336-21-6	Ammonia	-1,38
BCF		

CAS No	Chemical name	BCF	Species	Source
10043-35-3	boric acid	0,558	Oncorhynchus nerka	Water Research Vol.



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## 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 REACH, annex XIII.

### 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

No data available

#### Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

## **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.

## 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.

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

## **SECTION 14: Transport information**

14.1 UN number or ID number

#### Land transport (ADR/RID)

	No dangerous god
14.2. UN proper shipping name:	No dangerous goo
<u>14.3. Transport hazard class(es):</u>	No dangerous goo
14.4. Packing group:	No dangerous goo
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous goo
14.2. UN proper shipping name:	No dangerous goo
<u>14.3. Transport hazard class(es):</u>	No dangerous goo
14.4. Packing group:	No dangerous goo
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	No dangerous goo
14.2. UN proper shipping name:	No dangerous goo
14.3. Transport hazard class(es):	No dangerous goo
14.4. Packing group:	No dangerous goo
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous goo
14.2. UN proper shipping name:	No dangerous goo
14.3. Transport hazard class(es):	No dangerous goo

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14.6. Special precautions for user No dangerous good in sense of this transport regulation.

# 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

14.4. Packing group:



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## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59): boric acid Restrictions on use (REACH, annex XVII): Entry 3, Entry 30

## National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly hazardous to water

## **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 12.

### Abbreviations and acronyms

Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Irrit: Eye irritation Repr: Reproductive toxicity Aquatic Acute: Acute aquatic hazard Aduatic Chronic: Chronic aquatic hazard

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

### Relevant H and EUH statements (number and full text)

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### **Further Information**

Provide appropriate information, instructions and training to users

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)