

Multielement-Standardlösung 8 Elemente je 1g/l in HNO3 etwa 2 mol/l

Revision date: 03.06.2022

Product code: 14424

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

1.1. Product identifier

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UFI:

9DX8-P1K1-7007-45RS

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: Street:	Fa. Bernd Kraft GmbH Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone: e-mail:	0203/5194-0 info@berndkraft.de	Telefax: 0203/5194-290
Contact person: e-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@berndkraft.de www.berndkraft.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTF	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Carc. 1A; H350 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

- beryllium nitrate
- nitric acid

arsenic acid and it salts with the exception of those specified elsewhere in this Annex

Signal word: Danger



Pictograms:

according to UK REACH Regulation

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Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

3	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.

Special labelling of certain mixtures

EUH071	Corrosive to the respiratory tract.
	Restricted to professional users.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Mixtures in aqueous solution



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation	on)	-	
7697-37-2	nitric acid			5 - < 10 %
	231-714-2	007-030-00-3	01-2119487297-23	
	Ox. Liq. 3, Met. Corr. 1, Acute To	ox. 3, Skin Corr. 1A; H272 H2	290 H331 H314 EUH071	
13597-99-4	beryllium nitrate			1 - < 5 %
	237-062-5	004-002-00-2		
	Carc. 1B, Acute Tox. 2, Acute To 1, Aquatic Chronic 2; H350i H33		Skin Sens. 1, STOT SE 3, STOT RE 35 H372 H411	
16919-19-0	ammonium hexafluorosilicate			< 1 %
	240-968-3	009-012-00-0		
	Acute Tox. 3, Acute Tox. 3, Acut			
-	arsenic acid and it salts with the	< 1 %		
	-	033-005-00-1		
	Carc. 1A, Acute Tox. 3, Acute To H410			
7803-55-6	ammonium trioxovanadate			< 1 %
	232-261-3			
	Repr. 2, Acute Tox. 3, Acute Tox H332 H319 H372 H411	x. 4, Eye Irrit. 2, STOT RE 1,	Aquatic Chronic 2; H361d H301	
7446-08-4	selenium dioxide			< 1 %
	231-194-7	034-002-00-8		
	Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H331 H301 H373 H400 H410			

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	
7697-37-2	231-714-2	nitric acid	5 - < 10 %
		E 2,65 mg/kg (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= n Corr. 1B; H314: >= 5 - < 20	
13597-99-4	237-062-5	beryllium nitrate	1 - < 5 %
	inhalation: AT 100 mg/kg	E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: ATE =	
16919-19-0	240-968-3	ammonium hexafluorosilicate	< 1 %
	inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg		
-	-	arsenic acid and it salts with the exception of those specified elsewhere in this Annex	< 1 %
	inhalation: AT mg/kg	E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: ATE = 100	
7803-55-6	232-261-3	ammonium trioxovanadate	< 1 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 2,61 mg/l (dusts or mists); dermal: LD50 = > 2500 mg/kg; oral: LD50 = 218,1 mg/kg		
7446-08-4	231-194-7	selenium dioxide	< 1 %
	inhalation: AT 68,1 mg/kg	E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: LD50 =	



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Further Information

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

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

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.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Causes burns. Irritant Cough Dyspnoea Vomiting Methaemoglobinaemia Risk of serious damage to eyes.

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.



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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

Corrosive to metals.

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).

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

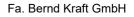
Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol. Use extractor hood (laboratory).

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.





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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

Corrosive to metals.

Unsuitable container/equipment material: Metal

The product develops hydrogen in an aqueous solution in contact with metals.

Hints on joint storage

national regulations

Further information on storage conditions

Keep container tightly closed.

Store in a place accessible by authorized persons only.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type Exposure route Effect Value				
7803-55-6	ammonium trioxovanadate			
Worker DNEL	, long-term	inhalation	systemic	0,64 mg/m ³
Worker DNEL	, long-term	inhalation	local	0,18 mg/m ³
Worker DNEL	, acute	inhalation	local	0,92 mg/m ³
Consumer DN	IEL, long-term	inhalation	systemic	0,18 mg/m ³
Consumer DN	IEL, long-term	inhalation	local	0,11 mg/m³
Consumer DN	IEL, acute	inhalation	local	0,57 mg/m³
Consumer DN	IEL, long-term	oral	systemic	0,18 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,92 mg/kg bw/day
7446-08-4	selenium dioxide			
Worker DNEL	, long-term	inhalation	systemic	0,07 mg/m³
Worker DNEL	, long-term	dermal	systemic	9,8 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,021 mg/m³
Consumer DNEL, long-term		dermal	systemic	6,02 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,00602 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment Value		Value
7803-55-6	ammonium trioxovanadate	
Freshwater		0,0076 mg/l
Freshwater ((intermittent releases)	0,00693 mg/l
Marine wate	r	0,0025 mg/l
Freshwater s	sediment	240 mg/kg
Marine sedir	nent	79 mg/kg
Secondary p	oisoning	0,167 mg/kg
Micro-organi	isms in sewage treatment plants (STP)	0,45 mg/l
Soil		7,2 mg/kg
7446-08-4	selenium dioxide	
Freshwater		0,00374 mg/l
Freshwater (intermittent releases)		0,0077 mg/l
Marine wate	r	0,0028 mg/l
Freshwater sediment		11,48 mg/kg
Marine sediment		8,68 mg/kg
Secondary poisoning		1,4 mg/kg
Micro-organisms in sewage treatment plants (STP) 10 mg/l		10 mg/l
Soil 0,06 r		0,06 mg/kg

8.2. Exposure controls



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Appropriate engineering controls

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

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

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

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm 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 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

Respiratory protection necessary at: aerosol or mist formation

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: Colour:	Liquid colourless	
Odour:	like: Nitric acid	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point	nt and	No data available
boiling range:		
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		



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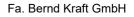
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Flash point:	No data available	
Flammability		
Solid/liquid:	No data available	
Gas:	No data available	
Explosive properties		
No data available		
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Auto-ignition temperature:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Decomposition temperature:	No data available	
pH-Value:	<1	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
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:	No data available	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard class		
Sustaining combustion:	No data available	
Oxidizing properties Oxidizing		
Other safety characteristics		
Solvent separation test:	No data available	
Solvent content:	0	
Solid content:	0	
Evaporation rate:	No data available	
Further Information		
Corrosive to metals.		

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals. Oxidising agent

10.2. Chemical stability





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The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

The product develops hydrogen in an aqueous solution in contact with metals. Amines, Ammonia, Alcohols, Alkali metals, Hydrogen peroxide Copper, Combustible solids, Solvent, Alkaline earth metal, mercury (Hg).

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Cellulose

Metal The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

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

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 preparation/mixture itself.

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (inhalation vapour) 18,08 mg/l; ATE (inhalation dust/mist) 2,259 mg/l



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
7697-37-2	nitric acid								
	inhalation vapour	ATE 2,6	5 mg/kg						
13597-99-4	beryllium nitrate								
	oral	ATE mg/kg	100						
	inhalation vapour	ATE	0,5 mg/l						
	inhalation dust/mist	ATE	0,05 mg/l						
16919-19-0	ammonium hexafluoros	silicate							
	oral	ATE mg/kg	100						
	dermal	ATE mg/kg	300						
	inhalation vapour	ATE	3 mg/l						
	inhalation dust/mist	ATE	0,5 mg/l						
-	arsenic acid and it salts with the exception of those specified elsewhere in this Annex								
	oral	ATE mg/kg	100						
	inhalation vapour	ATE	3 mg/l						
	inhalation dust/mist	ATE	0,5 mg/l						
7803-55-6	ammonium trioxovanadate								
	oral	LD50 mg/kg	218,1	Rat	Study report (1992)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2500	Rat	Study report (1992)	OECD Guideline 402			
	inhalation vapour	ATE	11 mg/l						
	inhalation (4 h) dust/mist	LC50	2,61 mg/l	Rat	Study report (1992)	OECD Guideline 403			
7446-08-4	selenium dioxide								
	oral	LD50 mg/kg	68,1	Rat	Indian Journal of Pharmacology 23(3):153	Method not specified GLP compliance: not			
	inhalation vapour	ATE	3 mg/l						
	inhalation dust/mist	ATE	0,5 mg/l						

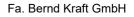
Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage. Following ingestion Gastric perforation Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract. Irritating to respiratory system. Pulmonary oedema see also Section 4

Sensitising effects

May cause an allergic skin reaction. (beryllium nitrate)

Carcinogenic/mutagenic/toxic effects for reproduction





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May cause cancer. (beryllium nitrate; arsenic acid and it salts with the exception of those specified elsewhere in this Annex)

Germ cell mutagenicity: 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

May cause damage to organs through prolonged or repeated exposure. (beryllium nitrate)

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.

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.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7697-37-2	nitric acid						
	Acute fish toxicity	LC50 mg/l	1559	96 h	Topeka shiner	Environmental Toxicology and Chemistry,	other: ASTM E729-26
	Fish toxicity	NOEC	268 mg/l	30 d	juvenile Topeka shiner and with juvenile Fathead m	Study report (2009)	Growth tests estimated the test chemical
	Algae toxicity	NOEC mg/l	> 419	10 d	several benthic diatoms; see results	Marine Biology 43:307-315 (1977)	Ten cultures of benthic diatoms were iso
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	Activated sludge	Study report (2008)	OECD Guideline 209
7803-55-6	ammonium trioxovanada	te					
	Acute fish toxicity	LC50 mg/l	3,17	96 h	Gasterosteus aculeatus	Environmental Toxicology 20:18–22. (2005	EPA OPPTS 850.1075
	Acute algae toxicity	ErC50 mg/l	2,907	72 h	Desmodesmus subspicatus	Study report (1999)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1,52	48 h	Daphnia magna	Study report (1978)	48h mortality test with daphnids
	Fish toxicity	NOEC mg/l	>= 0,48	28 d	Jordanella floridae	Water Research 13:905-910. (1979)	Different groups of fish were continuous
	Crustacea toxicity	NOEC mg/l	1,344	23 d	Daphnia magna	Bulletin of Environmental Contamination	other: 84/449/EEC: given by the Commissi
	Acute bacteria toxicity	(EC50 mg/l)	> 100	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209
7446-08-4	selenium dioxide				•	•	
	Acute fish toxicity	LC50	3,3 mg/l	96 h	Morone saxatilis	Publication (1992)	other: ASTM methods for acute testing
	Acute algae toxicity	ErC50 mg/l	44,24	72 h	Pseudokirchneriella subcapitata	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,55	48 h	Daphnia magna	Environmental Toxicology and Chemistry 1	other: EPA-660/3-75-00 9: Methods for Acu
	Fish toxicity	NOEC mg/l	0,01	258 d	Lepomis macrochirus	Environmental Toxicology and Chemistry 1	Year long study investigating the effect
	Algae toxicity	NOEC mg/l	0,995	10 d	Anabaena flos-aquae	Archives of Environmental Contamination	10-d experiment on the toxicity of selen
	Crustacea toxicity	NOEC mg/l	0,07	28 d	Daphnia magna	Department of Entomology, Fisheries and	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 3200	3 h	activated sludge of a predominantly domestic sewag	Study report (2012)	OECD Guideline 209



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12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No Chemical name		BCF	Species	Source
7803-55-6	ammonium trioxovanadate	< 0,036	Lactuca sativa	Study report (2003)
7446-08-4	selenium dioxide	755	periphyton	Environmental Pollut

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. There are no data available on the mixture itself.

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

Discharge into the environment must be avoided. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

Further information

Do not allow to enter into surface water or 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.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 2031 NITRIC ACID	
<u>14.2. UN proper shipping name:</u> 14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Classification code:	C1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Transport category:	2	
Hazard No:	80	
Tunnel restriction code:	E	
nland waterways transport (ΔDN)		



Multielement-Standardlösung 8 Elemente je 1g/l in HNO3 etwa 2 mol/l

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<u>14.1. UN number or ID number:</u>	UN 2031		
14.2. UN proper shipping name:	NITRIC ACID		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	11		
Hazard label:	8		
Classification code:	C1		
Limited quantity:	1 L		
Excepted quantity:	E2		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 2031		
14.2. UN proper shipping name:	NITRIC ACID		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	11		
Hazard label:	8		
Special Provisions:	-		
Limited quantity:	1 L		
Excepted quantity:	E2		
EmS:	F-A, S-B		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 2031		
14.2. UN proper shipping name:	NITRIC ACID		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	II		
Hazard label:	8		
Special Provisions:	A212		
Limited quantity Passenger:	Forbidden		
Passenger LQ:	Forbidden		
Excepted quantity:	E0		
IATA-packing instructions - Passenger:		Forbidden	
IATA-max. quantity - Passenger:		Forbidden	
IATA-packing instructions - Cargo:		855	
IATA-max. quantity - Cargo:		30 L	

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): arsenic acid and it salts with the exception of those specified elsewhere in this Annex					
Restrictions on use (REACH, annex XVII): Entry 3, Entry 65, Entry 75 Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III):					
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
Water hazard class (D):	3 - highly hazardous to water				
SECTION 16: Other information					

Revision No: 1,01 - Replaces version: 1,00



Multielement-Standardlösung 8 Elemente je 1g/l in HNO3 etwa 2 mol/l

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Changes

This data sheet contains changes from the previous version in section(s): 3,7,9.

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

Classification	Classification procedure		
Met. Corr. 1; H290	On basis of test data		
Acute Tox. 4; H332	Calculation method		
Skin Corr. 1B; H314	Calculation method		
Eye Dam. 1; H318	Calculation method		
Skin Sens. 1; H317	Calculation method		
Carc. 1A; H350	Calculation method		
STOT RE 2; H373	Calculation method		
Aquatic Chronic 3; H412	Calculation method		

Relevant H and EUH statements (number and full text)

5		
	H272	May intensify fire; oxidiser.
	H290	May be corrosive to metals.
	H301	Toxic if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H330	Fatal if inhaled.
	H331	Toxic if inhaled.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H350	May cause cancer.
	H350i	May cause cancer by inhalation.
	H361d	Suspected of damaging the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	EUH071	Corrosive to the respiratory tract.

Further 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.)