

according to Regulation (EC) No 1907/2006 Multielement-Standardlösung ICP RFA-ASL 8 Elemente in Salpetersäure 10%

Revision date: 09.04.2024

Product code: 32024

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

1.1. Product identifier

Multielement-Standardlösung ICP RFA-ASL 8 Elemente in Salpetersäure 10%

UFI:

UEPU-P2HT-V005-AER8

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 Dangerou	us Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Ca accepted)	EC Day or Night Within USA and Canada: nada: +1 703-741-5970 (collect calls

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

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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

nitric acid Arsenic pentoxide, arsenic (V) acid and/or salts nickel dinitrate Danger

Signal word:

Revision No: 1,03 - Replaces version: 1,02



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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.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

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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Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) N	lo 1272/2008)		
7697-37-2	nitric acid			10 - < 15 %
	231-714-2	007-030-00-3	01-2119487297-23	
	Ox. Liq. 3, Met. Corr. 1, Acute To	ox. 3, Skin Corr. 1A; H272 H	290 H331 H314 EUH071	
10031-43-3	Copper(II) nitrate trihydrate			< 1 %
			01-2119969290-34	
	Ox. Sol. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H315 H319 H400 H410			
-	arsenic acid and it salts with the	< 1 %		
	-	033-005-00-1		
	Carc. 1A, Acute Tox. 3, Acute To H410			
13478-00-7	nickel dinitrate hexahxdrate	< 0.1 %		
	236-068-5	028-012-00-1	01-2119492333-38	
	Ox. Sol. 2, Carc. 1A, Muta. 2, Re Resp. Sens. 1, Skin Sens. 1, ST H360D H332 H302 H315 H318 I			
7647-01-0	Hydrochloric acid	< 0.01 %		
	231-595-7	017-002-01-X	01-2119484862-27	
	Skin Corr. 1B, STOT SE 3; H314			
7647-01-0	Hydrochloric acid			< 0.01 %
	231-595-7	017-002-01-X	01-2119484862-27	
	Skin Corr. 1B, STOT SE 3; H314			

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



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CAS No	EC No	Chemical name	Quantity			
	Specific Con	c. Limits, M-factors and ATE				
7697-37-2	231-714-2	nitric acid	10 - < 15 %			
	inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 - 100 Skin Corr. 1B; H314: >= 5 - < 20					
10031-43-3		Copper(II) nitrate trihydrate	< 1 %			
	oral: ATE = {	500 mg/kg				
-	-	arsenic acid and it salts with the exception of those specified elsewhere in this Annex	< 1 %			
	inhalation: A mg/kg	TE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: ATE = 100				
13478-00-7	236-068-5	nickel dinitrate hexahxdrate	< 0.1 %			
	361,9 mg/kg H372: >= 1 - Aquatic Acute	TE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = Skin Irrit. 2; H315: >= 20 - 100 Skin Sens. 1; H317: >= 0,01 - 100 STOT RE 1; 100 STOT RE 2; H373: >= 0,1 - < 1 e 1; H400: M=1 nic 1; H410: M=1				
7647-01-0	231-595-7	Hydrochloric acid	< 0.01 %			
		; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < E 3; H335: >= 10 - 100				
7647-01-0	231-595-7	Hydrochloric acid	< 0.01 %			
		; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < E 3; H335: >= 10 - 100				

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



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Vomiting

Methaemoglobinaemia Risk of serious damage to eyes. Allergic reactions

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

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

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.



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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

Corrosive to metals. Unsuitable container/equipment material: Metal The product develops hydrogen in an aqueous solution in contact with metals.

Further information on storage conditions

Keep container tightly closed.

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
7440-36-0	Antimony	-	0.5		TWA (8 h)	
7647-01-0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	
13494-80-9	Tellurium	-	0.1		TWA (8 h)	



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DNEL/DMEL values

Substance								
	Exposure route	Effect	Value					
nickel dinitrate hexahxdrate								
acute	inhalation	systemic	104 mg/m³					
acute	inhalation	local	1,6 mg/m³					
EL, acute	inhalation	systemic	8,8 mg/m³					
EL, acute	inhalation	local	0,1 mg/m³					
Consumer DNEL, long-term		systemic	0,02 mg/kg bw/day					
EL, acute	oral	systemic	0,012 mg/kg bw/day					
Hydrochloric acid								
long-term	inhalation	local	8 mg/m³					
acute	inhalation	local	15 mg/m³					
EL, long-term	inhalation	local	8 mg/m³					
EL, acute	inhalation	local	15 mg/m³					
Hydrochloric acid								
long-term	inhalation	local	8 mg/m³					
acute	inhalation	local	15 mg/m³					
EL, long-term	inhalation	local	8 mg/m³					
Consumer DNEL, acute		local	15 mg/m³					
	nickel dinitrate hexahxdrate acute acute EL, acute Hydrochloric acid long-term acute EL, long-term EL, acute Hydrochloric acid long-term acute EL, acute Hydrochloric acid long-term acute EL, long-term acute EL, long-term acute EL, long-term acute	nickel dinitrate hexahxdrate Exposure route acute inhalation acute inhalation EL, acute inhalation EL, acute inhalation EL, acute oral EL, acute oral EL, acute oral EL, acute inhalation EL, acute oral EL, acute oral EL, acute oral EL, acute oral Hydrochloric acid inhalation acute inhalation Iong-term inhalation EL, long-term inhalation Iong-term inhalation Icute inhalation EL, acute inhalation EL, acute inhalation EL, acute inhalation EL, acute inhalation EL, long-term inhalation acute inhalation	Exposure routeEffectnickel dinitrate hexahxdrateacuteinhalationsystemicacuteinhalationlocalEL, acuteinhalationlocalEL, acuteinhalationlocalEL, acuteoralsystemicEL, acuteoralsystemicEL, acuteoralsystemicEL, acuteoralsystemicEL, acuteoralsystemicEL, acuteoralsystemicEL, acuteorallocalEL, acuteinhalationlocalEL, acuteinhalationlocalIong-terminhalationlocalacuteinhalationlocalEL, acuteinhalationlocalIong-terminhalationlocalIong-terminhalationlocalIong-terminhalationlocalIong-terminhalationlocalEL, acuteinhalationlocalEL, acuteinhalationlocalBorderinhalationlocalBorderinhalationlocal					

PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
10031-43-3	Copper(II) nitrate trihydrate	
Freshwater		0,0078 mg/l
Marine water		0,0052 mg/l
Freshwater se	ediment	87 mg/kg
Marine sedim	ent	676 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	0,23 mg/l
Soil		65 mg/kg
13478-00-7	nickel dinitrate hexahxdrate	
Freshwater		0,0071 mg/l
Freshwater (in	ntermittent releases)	0 mg/l
Marine water		0,0086 mg/l
Freshwater se	ediment	109 mg/kg
Marine sedim	ent	109 mg/kg
Secondary poisoning		0,12 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	0,33 mg/l
Soil		29,9 mg/kg

8.2. Exposure controls

Appropriate engineering controls

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



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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

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.

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 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 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. 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:	colourless	
Odour:	like: Nitric acid	
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



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Upper explosion limits:	No data available					
Flash point:	No data available					
Auto-ignition temperature:	No data available					
Decomposition temperature:	No data available					
pH-Value:	<1					
Viscosity / kinematic:	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:	1,06 g/cm ³					
Bulk density:	No data available					
Relative vapour density:	No data available					
9.2. Other information						
Information with regard to physical hazard classes	5					
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						
Corresive to motels						

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals. Oxidising agent

10.2. Chemical stability

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).



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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 Regulation (EC) No 1272/2008

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,608 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7697-37-2	nitric acid						
	inhalation vapour	ATE 2,6	5 mg/l				
10031-43-3	Copper(II) nitrate trihyd	rate					
	oral	ATE mg/kg	500				
-	arsenic acid and it salts	with the exe	ception of thos	se specified elsewhere	in this Annex		
	oral	ATE mg/kg	100				
	inhalation vapour	ATE	3 mg/l				
	inhalation dust/mist	ATE	0,5 mg/l				
13478-00-7	nickel dinitrate hexahxdrate						
	oral	LD50 mg/kg	361,9	Rat	Regul Toxicol and Pharmacol (doi.org/10.	OECD Guideline 425	
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage. Corrosive to the respiratory tract. Following ingestion Gastric perforation Irritating to respiratory system. Pulmonary oedema see also Section 4

Sensitising effects

May cause an allergic skin reaction. (nickel dinitrate hexahxdrate)

Carcinogenic/mutagenic/toxic effects for reproduction



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

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

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.

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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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		
10031-43-3	Copper(II) nitrate trihydrat	e							
	Acute fish toxicity	LC50 mg/l	0,193	96 h	Pimephales promelas	Study report (1996)	measurements were conducted by standard		
	Acute algae toxicity	ErC50 mg/l	0,152	72 h	Pseudokirchneriella subcapitata	Publication (2005)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	0,007	48 h	Daphnia magna	Study report (1978)	- Test were conducted on Daphnia magna t		
	Fish toxicity	NOEC mg/l	0,123	12 d	Atherinops affinis	Mar. Environ. Res. 31: 17-35 (1991)	Three tests are reported, designed to de		
	Algae toxicity	NOEC mg/l	0,0102	19 d	other aquatic plant: giant kelp Macrocystis pyrife	Mar. Ecol. Prog. Ser. 68: 147 - 156 (199	Tests were conducted to determine the ef		
	Crustacea toxicity	NOEC mg/l	0,033	14 d	Penaeus mergulensis and Penaeus monodon	Bull. Environ. Contain. Toxicol. (1995)	The effects of dissolved copper on the g		
13478-00-7	nickel dinitrate hexahxdrate								
	Acute fish toxicity	LC50 mg/l	15,3	96 h	Oncorhynchus mykiss	Aquatic Toxicology 63 (2003) 65-82 (2003	other: not reported		
	Acute algae toxicity	ErC50 mg/l	0,237	72 h	Ankistrodesmus falcatus	Publication (2009)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	0,2663	48 h	Ceriodaphnia dubia	Study report (2004)	other: American society of testing and m		
	Fish toxicity	NOEC mg/l	0,057	32 d	Pimephales promelas	Water Resources Research Institute. Kent	other: ASTM 1980, E-729		
	Algae toxicity	NOEC	0,6 mg/l	14 d	Anabaena cylindrica	Environ. Pollut. (Series A). 25(4):241-2	other: not reported		
	Crustacea toxicity	NOEC mg/l	0,04	42 d	Daphnia magna	Wat. Res. 24(7):845-852 (1990)	Chronic exposure to sublethal concentrat		
	Acute bacteria toxicity	EC50)	33 mg/l (0,5 h	Activated sludge	Journal of Hazardous Materials. B139:332	ISO 8192		



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7647-01-0	Hydrochloric acid					
	Acute fish toxicity	LC50	862 mg/l	96 h Leuciscus idus		
7647-01-0	Hydrochloric acid					
	Acute fish toxicity	LC50	862 mg/l	96 h Leuciscus idus		

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
10031-43-3	Copper(II) nitrate trihydrate	0,02 - 20	Crangon crangon	Symp. Biologica. Hun
13478-00-7	nickel dinitrate hexahxdrate	23	Spirodela polyrhiza	Ecotoxicology and en

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.

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

Land transport (ADR/RID)

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
Classification code:	C1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
and waterways transport (ADN)	



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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		
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:	II		
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):

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 27, Entry 75

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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

Changes



according to Regulation (EC) No 1907/2006

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This data sheet contains changes from the previous version in section(s): 1,12.

Abbreviations and acronyms

Ox. Liq: Oxidising liquid Ox. Sol: Oxidising solid Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eve Irrit: Eve irritation Resp. Sens: Respiratory sensitisation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity STOT SE: Specific target organ toxicity - single exposure 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 Regulation (EC) No 1272/2008 [CLP]

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
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

e	ievant n and EUR stat	ements (number and run text)
	H272	May intensify fire; oxidiser.
	H290	May be corrosive to metals.
	H301	Toxic if swallowed.
	H302	Harmful if swallowed.
	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.
	H331	Toxic if inhaled.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H341	Suspected of causing genetic defects.
	H350	May cause cancer.
	H350i	May cause cancer by inhalation.
	H360D	May damage the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	EUH071	Corrosive to the respiratory tract.



according to Regulation (EC) No 1907/2006

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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.)