

Multielement-Standardlösung 7 Elemente in Salpetersäure 0,5 mol/l

Revision date: 31.05.2023

Product code: 33726

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

1.1. Product identifier

Multielement-Standardlösung 7 Elemente in Salpetersäure 0,5 mol/l

UFI:

NJD0-439G-500F-6FJ2

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	
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 CHEMTF	REC Day or Night Within USA and Canada:
		anada: +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

Met. Corr. 1; H290 Skin Irrit. 2; H315 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

Regulation (EC) No 1272/2008

Hazard components for labelling

nitric acid nickel dinitrate cobalt dinitrate cadmium nitrate; cadmium dinitrate Danger

Signal word:



according to Regulation (EC) No 1907/2006

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Hazard statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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

Obtain special instructions before use.
Wear protective gloves and eye/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

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 (Regulation (EC) No				
7697-37-2	nitric acid			1 - < 5 %	
	231-714-2	007-030-00-3	01-2119487297-23		
	Ox. Liq. 3, Met. Corr. 1, Acute Tox.	3, Skin Corr. 1A; H272 H290 H331 H	H314 EUH071		
13138-45-9	nickel dinitrate			< 1 %	
	236-068-5	028-012-00-1			
	Ox. Sol. 2, Carc. 1A, Muta. 2, Repr. 1B, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H272 H350i H341 H360D H332 H302 H315 H318 H334 H317 H372 H400 H410				
10141-05-6	cobalt dinitrate		< 1 %		
	233-402-1	027-009-00-2			
	Carc. 1B, Muta. 2, Repr. 1B, Resp. H350i H341 H360F H334 H317 H4	e 1, Aquatic Chronic 1;			
7803-55-6	ammonium trioxovanadate			< 1 %	
	232-261-3				
	Repr. 2, Acute Tox. 3, Acute Tox. 4 H332 H319 H372 H411	nronic 2; H361d H301			
10325-94-7	cadmium nitrate; cadmium dinitrate		< 0.1 %		
	233-710-6	048-014-00-6			
		te Tox. 4, Acute Tox. 4, Acute Tox. 4, 1340 H360 H332 H312 H302 H372 H			

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		
7697-37-2	231-714-2	nitric acid	1 - < 5 %	
		2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 rr. 1B; H314: >= 5 - < 20		
13138-45-9	236-068-5	nickel dinitrate	< 1 %	
	361,9 mg/kg S			
10141-05-6	233-402-1	cobalt dinitrate	< 1 %	
	Carc. 1B; H350i Aquatic Acute 1 Aquatic Chronic	,		
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			
10325-94-7	233-710-6	cadmium nitrate; cadmium dinitrate	< 0.1 %	
		= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = al: ATE = 500 mg/kg_Carc. 1B; H350: >= 0,01 - 100		

Further Information

No data available



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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

Irritant

Methaemoglobinaemia

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



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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.

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

Vor Gebrauch Kennzeichnungsetikett lesen. Behälter mit Vorsicht öffnen und handhaben. Am Arbeitsplatz nicht essen, trinken, rauchen, schnupfen. Persönliche Schutzausrüstung verwenden. Für ausreichende Lüftung sorgen. Kontakt mit Haut, Augen und Kleidung vermeiden. Dampf/Aerosol nicht einatmen. Abzug verwenden (Labor).

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



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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.

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

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
13138-45-9	nickel dinitrate		· · ·			
Consumer DNEL, acute oral oral systemic 0,012						
Consumer DN	IEL, long-term	oral	systemic	0,02 mg/kg bw/day		
Worker DNEL	., acute	inhalation	systemic	104 mg/m ³		
Worker DNEL	, acute	inhalation	local	1,6 mg/m³		
Consumer DN	IEL, acute	inhalation	systemic	8,8 mg/m³		
Consumer DN	IEL, acute	inhalation	local	0,1 mg/m³		
7803-55-6	ammonium trioxovanadate					
Worker DNEL	., long-term	inhalation	systemic	0,64 mg/m³		
Worker DNEL	., long-term	inhalation	local	0,18 mg/m³		
Worker DNEL	., acute	inhalation	local	0,92 mg/m³		
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	NEL, acute	inhalation	local	0,57 mg/m³		
Consumer DNEL, long-term		oral	systemic	0,18 mg/kg bw/day		
Consumer DN	IEL, acute	oral	systemic	0,92 mg/kg bw/day		



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PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
13138-45-9	nickel dinitrate	
Freshwater		0,0071 mg/l
Freshwater (i	ntermittent releases)	0 mg/l
Marine water		0,0086 mg/l
Freshwater s	ediment	109 mg/kg
Marine sedim	ent	109 mg/kg
Secondary po	pisoning	0,12 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	0,33 mg/l
Soil		29,9 mg/kg
7803-55-6	ammonium trioxovanadate	
Freshwater		0,0076 mg/l
Freshwater (i	ntermittent releases)	0,00693 mg/l
Marine water		0,0025 mg/l
Freshwater s	ediment	240 mg/kg
Marine sedim	ent	79 mg/kg
Secondary poisoning		0,167 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	0,45 mg/l
Soil		7,2 mg/kg

8.2. Exposure controls

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

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 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



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(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: Liquid Colour: orange Odour: odourless Odour threshold: No data available Melting point/freezing point: No data available Boiling point or initial boiling point and boiling range: No data available
Odour: odourless Odour threshold: No data available Melting point/freezing point: No data available Boiling point or initial boiling point and boiling range: No data available
Melting point/freezing point:No data availabBoiling point or initial boiling point andNo data availabboiling range:No data availab
Boiling point or initial boiling point and No data availab boiling range:
boiling range:
Flammability: No data availab
Lower explosion limits: No data availab
Upper explosion limits: No data availab
Flash point: No data availab
Auto-ignition temperature: No data availab
Decomposition temperature: No data availab
pH-Value (at 20 °C): 0
Viscosity / kinematic: No data availab
Water solubility: completely miscib
Solubility in other solvents
No data available
Dissolution rate: No data availab
Partition coefficient n-octanol/water: No data availab
Dispersion stability: No data availab
Vapour pressure: No data availab
Vapour pressure: No data availab
Density (at 20 °C): 1,01878 g/cr
Bulk density: No data availab
Relative vapour density: No data availab
Particle characteristics: No data availab
9.2. Other information
Information with regard to physical hazard classes
Explosive properties
No data available
Sustaining combustion: No data availab
Self-ignition temperature
Solid: No data availab
Gas: No data availab
Oxidizing properties
Oxidizing
Other safety characteristics
Evaporation rate: No data availab
Solvent separation test: No data availab



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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

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

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

Toxicocinetics, metabolism and distribution

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

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



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7697-37-2	nitric acid						
	inhalation vapour	ATE 2,65	ō mg/l				
13138-45-9	nickel dinitrate						
	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				
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	
10325-94-7	cadmium nitrate; cadm	ium dinitrate					
	oral	ATE mg/kg	500				
	dermal	ATE mg/kg	1100				
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (nickel dinitrate; cobalt dinitrate)

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (nickel dinitrate; cobalt dinitrate; cadmium nitrate; cadmium dinitrate) 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. (nickel dinitrate)

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



according to Regulation (EC) No 1907/2006

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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
13138-45-9	nickel dinitrate						
	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
7803-55-6	ammonium trioxovanadat	9					
	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



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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
13138-45-9	nickel dinitrate	23	Spirodela polyrhiza	Ecotoxicology and en
7803-55-6	ammonium trioxovanadate	< 0,036	Lactuca sativa	Study report (2003)

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. 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.

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 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 8 14.4. Packing group: Ш Hazard label: 8 Classification code: C1 Special Provisions: 274 51 Limited quantity: Excepted quantity: E1 Transport category: З Hazard No: 80 Tunnel restriction code: F Inland waterways transport (ADN) 14.1. UN number or ID number: UN 3264 14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) 14.3. Transport hazard class(es): 8 Revision No: 1,01 - Replaces version: 1,00 IRL - en



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14.4. Packing group:			
Hazard label:	8		
Classification code:	C1		
Special Provisions:	274		
Limited quantity:	5 L		
Excepted quantity:	E1		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 3264		
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Nitric	; acid)	
14.3. Transport hazard class(es):	8		
14.4. Packing group:	III		
Hazard label:	8		
Special Provisions:	223, 274		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS:	F-A, S-B		
Segregation group:	1 - acids		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 3264		
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Nitric	acid)	
14.3. Transport hazard class(es):	8		
14.4. Packing group:	III		
Hazard label:	8		
Special Provisions:	A3 A803		
Limited quantity Passenger:	1 L		
Passenger LQ:	Y841		
Excepted quantity:	E1		
IATA-packing instructions - Passenger:	852		
IATA-max. quantity - Passenger:	5 L		
IATA-packing instructions - Cargo:	856		
IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		

SECTION 15: Regulatory information

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

FII	regulator	v information
	requiator	

EO regulatory information	
Authorisations (REACH, annex XIV):	
Substances of very high concern, SVH0 cobalt dinitrate; cadmi	
Restrictions on use (REACH, annex XVII):	
Entry 3, Entry 23, Entry 28, Entry 65, Er	ntry 75
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	3 - highly hazardous to water

SECTION 16: Other information





according to Regulation (EC) No 1907/2006

Multielement-Standardlösung 7 Elemente in Salpetersäure 0,5 mol/l

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Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,7,9,10,11,14,15.

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 Eye Irrit: Eye irritation Resp. Sens: Respiratory sensitisation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity 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 Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Irrit. 2; H315	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)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful 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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H350i	May cause cancer by inhalation.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H360F	May damage fertility.
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.



according to Regulation (EC) No 1907/2006

Multielement-Standardlösung 7 Elemente in Salpetersäure 0,5 mol/l

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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.)