



according to Regulation (EC) No 1907/2006

Multielement-Standardlösung 4 Elemente in Salpetersäure 2 mol/l

Revision date: 04.07.2023

Product code: 32851

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

1.1. Product identifier

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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 CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and 0	Canada: +1 703-741-5970 (collect calls

Further Information

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

accepted)

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 Resp. Sens. 1; H314 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1A; H350i Repr. 1B; H360FD STOT RE 1; H372 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

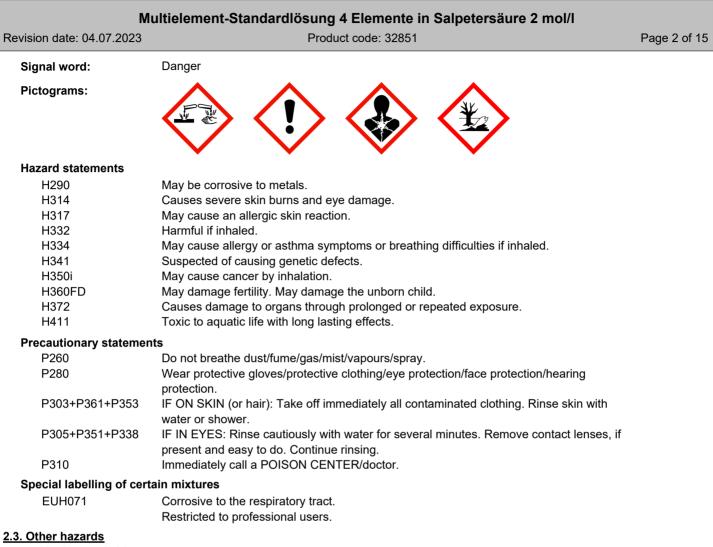
2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling nitric acid nickel dinitrate cobalt dinitrate



according to Regulation (EC) No 1907/2006



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	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 Tox	. 3, Skin Corr. 1A; H272 H290 H331	H314 EUH071	
7782-61-8	Iron(III) nitrate nonahydrate			5 - < 10 %
	233-899-5			
	Ox. Sol. 3, Skin Irrit. 2, Eye Irrit. 2	H272 H315 H319		
13138-45-9	nickel dinitrate			1 - < 5 %
	236-068-5	028-012-00-1		
		r. 1B, Acute Tox. 4, Acute Tox. 4, Ski T RE 1, Aquatic Acute 1, Aquatic Chr 334 H317 H372 H400 H410		
7440-66-6	zinc			< 1 %
	231-175-3			
	Aquatic Acute 1, Aquatic Chronic	; H400 H410		
10141-05-6	cobalt dinitrate			< 1 %
	233-402-1	027-009-00-2		
	Carc. 1B, Muta. 2, Repr. 1B, Rest H350i H341 H360F H334 H317 H	Sens. 1, Skin Sens. 1, Aquatic Acut 400 H410	e 1, Aquatic Chronic 1;	

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	10 - < 15 %			
		E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 rr. 1B; H314: >= 5 - < 20				
7782-61-8	233-899-5	Iron(III) nitrate nonahydrate	5 - < 10 %			
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg					
13138-45-9	236-068-5	B-5 nickel dinitrate				
	361,9 mg/kg S					
10141-05-6	233-402-1	cobalt dinitrate	< 1 %			
	Carc. 1B; H350i: >= 0,01 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10					

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: cobalt dinitrate

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!



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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. 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



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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

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. 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	DNEL type		Effect	Value
7782-61-8	Iron(III) nitrate nonahydrate		·	
Worker DNEL,	long-term	inhalation	systemic	12 mg/m³
Worker DNEL,	long-term	dermal	systemic	17 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	3 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	8,6 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	1,2 mg/kg bw/day
13138-45-9	nickel dinitrate			
Consumer DNE	EL, acute	oral	systemic	0,012 mg/kg bw/day
Consumer DNEL, 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 DNEL, acute		inhalation	systemic	8,8 mg/m³
Consumer DNE	EL, acute	inhalation	local	0,1 mg/m³



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PNEC values

CAS No	Substance	
Environmental compartment Value		
7782-61-8	Iron(III) nitrate nonahydrate	
Freshwater		0,024 mg/l
Freshwater (in	ntermittent releases)	0,24 mg/l
Marine water		0,002 mg/l
Freshwater se	ediment	0,2 mg/kg
Marine sedim	ent	0,02 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	500 mg/l
Soil		0,026 mg/kg
13138-45-9	nickel dinitrate	
Freshwater		0,0071 mg/l
Freshwater (intermittent releases) 0 mg/l		0 mg/l
Marine water 0,0		0,0086 mg/l
Freshwater sediment		109 mg/kg
Marine sediment		109 mg/kg
Secondary poisoning 0,12 n		0,12 mg/kg
Micro-organisms in sewage treatment plants (STP) 0,33 mg/l		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 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 (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).



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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

9.1. Information on basic physical and cl	<u>nemical properties</u>	
Physical state:	Liquid	
Colour:	clear	
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
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		acidic
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:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
9.2. Other information		
Information with regard to physical ha	azard 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:		No data available
Solid content:		No data available
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available



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No data available:		

No data available

No data available

No data available: Viscosity / dynamic: Flow time:

Further Information

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).

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

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) 3,561 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/l			
7782-61-8 Iron(III) nitrate nonahydrate						
	oral	LD50 mg/kg	> 2000	Rat	Study report (2002)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2004)	OECD Guideline 402
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			

Irritation and corrosivity

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

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (nickel dinitrate; cobalt dinitrate) May cause an allergic skin reaction. (nickel dinitrate; cobalt dinitrate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (nickel dinitrate; cobalt dinitrate) May cause cancer by inhalation. (nickel dinitrate; cobalt dinitrate) May damage fertility. May damage the unborn child.

STOT-single exposure

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

STOT-repeated exposure

Causes 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

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



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There are no data available on the mixture itself.

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
7782-61-8	Iron(III) nitrate nonahydra	te					
	Acute fish toxicity	LC50 mg/l	1010	96 h	Pimephales promelas	Scott, G. & Crunkilton, R. (2000). Acute	The study was not carried out to any spe
	Acute algae toxicity	ErC50	130 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2002)	OECD Guideline 201
	Acute crustacea toxicity	EC50	611 mg/l	48 h	Daphnia magna	Scott, G. & Crunkilton, R. (2000). Acute	The study was not carried out to any spe
	Fish toxicity	NOEC	1,6 mg/l	146 d	Salvelinus namaycush	McGurk, M., Landry, F., Tang, A. & Hanks	No specifc guideline followed. However,
	Crustacea toxicity	NOEC	8,1 mg/l	21 d	Daphnia magna	Study report (2002)	OECD Guideline 211
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

12.2. Persistence and degradability



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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

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

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
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:	II
Hazard label:	8
Classification code:	C1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
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
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1



Special Provisions: 274 Limited quantity: 1 Excepted quantity: E2 arine transport (MDG) UN 3264 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: II Hazard label: 8 Special Provisions: 274 Limited quantity: IL Excepted quantity: E2 EmS: F-A, S-B I'r transport (ICAO-TI/IATA-DGR) 11 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 name; CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) 14.3. UN proper shipping name; CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) 14.3. UN proper shipping name; CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) 14.2. UN proper shipping name; CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) 14.3. UN proper shipping name; CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) 14.2. U	evision date: 04.07.2023	ndardlösung 4 Elemente in Salpetersäure 2 mol/l Product code: 32851 P	age 13 o
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THE SECONDERS		work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or	-
Water hazard class (D): 3 - highly hazardous to water			

SECTION 16: Other information

Changes



according to Regulation (EC) No 1907/2006

Multielement-Standardlösung 4 Elemente in Salpetersäure 2 mol/l

Revision date: 04.07.2023

Product code: 32851

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This data sheet contains changes from the previous version in section(s): 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 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
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Muta. 2; H341	Calculation method
Carc. 1A; H350i	Calculation method
Repr. 1B; H360FD	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H272May intensify fire; oxidiser.H290May be corrosive to metals.H302Harmful if swallowed.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage for organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.	e	elevant H and EOH statements (number and funitext)		
H302Harmful if swallowed.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H311Toxic if inhaled.H322Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H272	May intensify fire; oxidiser.	
H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FDMay damage fertility.H360FDMay damage fertility.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H290	May be corrosive to metals.	
H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H302	Harmful if swallowed.	
H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H314	Causes severe skin burns and eye damage.	
H318Causes serious eye damage.H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H315	Causes skin irritation.	
H319Causes serious eye irritation.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H317	May cause an allergic skin reaction.	
H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H318	Causes serious eye damage.	
H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H319	Causes serious eye irritation.	
H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H331	Toxic if inhaled.	
H341Suspected of causing genetic defects.H350iMay cause cancer by inhalation.H360DMay damage the unborn child.H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H332	Harmful if inhaled.	
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H360FMay damage fertility.H360FDMay damage fertility. May damage the unborn child.H372Causes damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.		H350i	May cause cancer by inhalation.	
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H410 Very toxic to aquatic life with long lasting effects.		H372	Causes damage to organs through prolonged or repeated exposure.	
		H400	Very toxic to aquatic life.	
H411 Toxic to aquatic life with long lasting effects.		H410	Very toxic to aquatic life with long lasting effects.	
		H411	Toxic to aquatic life with long lasting effects.	



Multielement-Standardlösung 4 Elemente in Salpetersäure 2 mol/l

Revision date: 04.07.2023

Product code: 32851

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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.)