

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 1 of 14

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

#### 1.1. Product identifier

Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

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

#### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

# 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 Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

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

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

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Carc. 1B; H350i Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 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

Signal word: Danger



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 2 of 14

# Pictograms:







#### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H350i May cause cancer by inhalation.

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.

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

# 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

# Relevant ingredients

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation	on (EC) No 1272/2008)				
7697-37-2	nitric acid			5 - < 10 %		
	231-714-2	007-030-00-3	01-2119487297-23			
	Ox. Liq. 3, Met. Corr. 1, EUH071	Acute Tox. 3, Skin Corr. 1A, Eye Dar	m. 1; H272 H290 H331 H314 H318			
13138-45-9	nickel dinitrate			< 0.1 %		
	236-068-5	028-012-00-1	01-2119492333-38			
	Ox. Sol. 2, Carc. 1A, M Sens. 1, Skin Sens. 1, 3 H332 H302 H315 H318					
10141-05-6	cobalt dinitrate	< 0.1 %				
	233-402-1	027-009-00-2				
	Carc. 1B, Muta. 2, Rep H350i H341 H360F H3	r. 1B, Resp. Sens. 1, Skin Sens. 1, A 34 H317 H400 H410	quatic Acute 1, Aquatic Chronic 1;			
7761-88-8	silver nitrate			< 0.01 %		
	231-853-9	047-001-00-2	01-2119513705-43			
	Ox. Sol. 2, Met. Corr. 1 H290 H314 H318 H400					

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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 3 of 14

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
7697-37-2	231-714-2	nitric acid	5 - < 10 %
		E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 - r. 1B; H314: >= 5 - < 20	
13138-45-9	236-068-5	nickel dinitrate	< 0.1 %
	361,9 mg/kg		
10141-05-6	233-402-1	cobalt dinitrate	< 0.1 %
	Aquatic Acute 1	0i: >= 0,01 - 100 I; H400: M=10 c 1; H410: M=10	
7761-88-8	231-853-9	silver nitrate	< 0.01 %
		= > 348 mg/kg; oral: LD50 = > 2000 mg/kg	

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

# 4.1. Description of first aid measures

### **General information**

Take off immediately all contaminated clothing.

#### After inhalation

Provide fresh air.

Call a physician immediately.

### After contact with skin

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

Never give anything by mouth to an unconscious person or a person with cramps.

Rinse mouth immediately and drink plenty of water.

Do not allow a neutralisation agent to be drunk. Do NOT induce vomiting.

Call a physician immediately.

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

Irritant — skin irritation and eye damage

Causes burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 4 of 14

# 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

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Corrosive to metals.

## For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

# For emergency responders

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

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

### For containment

Cover drains.

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

Collect in closed and suitable containers for disposal.

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

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

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

#### 6.4. Reference to other sections

Safe handling: see section 7



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 5 of 14

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. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

# 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. Make available sufficient washing facilities

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.

### 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.

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

# 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed.

Corrosive to metals.

### Hints on joint storage

No data available

national regulations

# Further information on storage conditions

Store in a dry place.

### 7.3. Specific end use(s)

Laboratory chemicals

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

### 8.1. Control parameters

### Occupational exposure limits

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



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 6 of 14

# **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
13138-45-9	nickel dinitrate			
Consumer DI	NEL, acute	oral	systemic	0,012 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,02 mg/kg bw/day
Worker DNEI	L, acute	inhalation	systemic	104 mg/m³
Worker DNEL, acute		inhalation	local	1,6 mg/m³
Consumer DNEL, acute		inhalation	systemic	8,8 mg/m³
Consumer DI	NEL, acute	inhalation	local	0,1 mg/m³
7761-88-8	silver nitrate	·		
Worker DNEI	L, long-term	inhalation	systemic	0,016 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0,006 mg/m³
Consumer DI	NEL, long-term	oral	systemic	0,02 mg/kg bw/day

# PNEC values

CAS No	Substance	
Environmental	Environmental compartment	
13138-45-9 nickel dinitrate		
Freshwater		0,0071 mg/l
Freshwater (in	termittent releases)	0 mg/l
Marine water		0,0086 mg/l
Freshwater se	diment	109 mg/kg
Marine sedime	ent	109 mg/kg
Secondary poisoning		0,12 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,33 mg/l
Soil		29,9 mg/kg
7761-88-8	silver nitrate	·
Freshwater		0,00004 mg/l
Marine water		0,00086 mg/l
Freshwater sediment 438,13		438,13 mg/kg
Marine sediment 438		438,13 mg/kg
Micro-organisms in sewage treatment plants (STP) 0,025 m		0,025 mg/l
Soil		1,41 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.

Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 7 of 14

# Eye/face protection

goggles

Wear eye protection/face protection.

#### Hand protection

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

KCL 741 Dermatril® L

NBR (Nitrile rubber) 0,11mm

Wearing time with permanent contact: >480min

KCL 741 Dermatril® L

NBR (Nitrile rubber) 0,11mm

Wearing time with occasional contact (splashes): >480min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

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

#### Respiratory protection

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

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

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: clear
Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

No data available Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available Flash point: Auto-ignition temperature: No data available No data available Decomposition temperature: acidic pH-Value: No data available Viscosity / kinematic: No data available Water solubility:



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 8 of 14

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

Relative vapour density:

No data available

### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

No data available

Sustained combustibility: No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

# Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available

Solvent content:

Solid content:

Sublimation point:

Softening point:

No data available

Pour point:

No data available

No data available

No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information
No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Corrosive to metals.

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

Alkali (lye)

# 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Metal

various metals, metal alloys

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** 



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 9 of 14

### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

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

#### **ATEmix calculated**

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7697-37-2	nitric acid					
	inhalation vapour	ATE 2,65	5 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			
7761-88-8	silver nitrate					
	oral	LD50 mg/kg	> 2000	Rat	Study report (1993)	OECD Guideline 401
	dermal	LD50 mg/kg	> 348	Guinea pig	J. Vet. Med. Sci.73: 1417 - 1423. (2011)	OECD Guideline 434

## Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

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

Corrosive to the respiratory tract.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer by inhalation. (nickel dinitrate; cobalt 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

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

# **Aspiration hazard**

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

# **SECTION 12: Ecological information**

#### 12.1. Toxicity



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 10 of 14

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
7761-88-8	silver nitrate						
	Acute fish toxicity	LC50 mg/l	0,0012	96 h	Pimephales promelas	Environmental Toxicology and Chemistry.	A guideline was not specified. The test
	Acute algae toxicity	ErC50 mg/l	0,0099	96 h	Pseudokirchneriella subcapitata	Environmental Science and Technology. 44	eline: U.S. Environmental Protection Age
	Acute crustacea toxicity	EC50 mg/l	0,00022	48 h	Daphnia magna	Environmental Toxicology and Chemistry.	The protective effect of reactive sulphi
	Fish toxicity	NOEC 0,00125 m	> ng/l	73 d	Oncorhynchus mykiss	Environmental Toxicology and Chemistry 2	other: ASTM 1241-98



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 11 of 14

Algae toxicity	NOEC mg/l	0,0012	14 d		Cardwell RD	The toxicity tests lasted 11 days for th
Crustacea toxicity	NOEC mg/l	0,00031	20 d	,	Toxicology and	20 day sublethal effects on representati

# 12.3. Bioaccumulative potential

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
13138-45-9	nickel dinitrate	23	Spirodela polyrhiza	Ecotoxicology and en
7761-88-8	silver nitrate	70	Cyprinus carpio	Water, Air and Soil

### 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

Harmful effect due to pH shift.

#### **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.

UN 2031

80

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Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains.

# Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

14.1. UN number or ID number:

# Land transport (ADR/RID)

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

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2031

Tunnel restriction code:

Hazard No:



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 12 of 14

14.2. UN proper shipping name: NITRIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C1Limited quantity:1 LExcepted 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):814.4. Packing group:IIHazard label:8Special Provisions:-Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:UN 203114.2. UN proper shipping name:NITRIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:A212Limited quantity Passenger:ForbiddenPassenger LQ:Forbidden

Excepted quantity: E0

IATA-packing instructions - Passenger: Forbidden
IATA-max. quantity - Passenger: Forbidden
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

# **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

cobalt dinitrate

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 27, Entry 28, 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**

Water hazard class (D): 3 - highly hazardous to water

# **SECTION 16: Other information**



according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 13 of 14

#### Abbreviations and acronyms

Ox. Liq. 3: Oxidising liquids, hazard category 3
Ox. Sol. 2: Oxidising solids, hazard category 2
Met. Corr. 1: Corrosive to metals, hazard category 1
Acute Tox. 3: Acute toxicity, hazard category 3
Skin Corr. 1A: Skin corrosion, sub-category 1A
Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1 Resp. Sens. 1: Respiratory sensitisation, hazard category 1

Skin Sens. 1: Skin sensitisation, hazard category 1 Muta. 2: Germ cell mutagenicity, hazard category 2 Carc. 1A: Carcinogenicity, hazard category 1A Repr. 1B: Reproductive toxicity, hazard category 1B

STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1 Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

# 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
Carc. 1B; H350i	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	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.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360D	May damage the unborn child.
H360F	May damage fertility.
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.

#### **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.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Multielement-Standardlösung 12 Elemente in Salpetersäure 1 mol/l mit Spuren Flusssäure

Revision: 22.04.2024 Product code: 31291 Page 14 of 14

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.)