

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Multielement-Standardlösung 15 Elemente in Salpetersäure 0,5 mol/l

Revision date: 15.08.2023

Product code: 33818

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

### 1.1. Product identifier

Multielement-Standardlösung 15 Elemente in Salpetersäure 0,5 mol/l

UFI: 0FN0-P3T0-A00Y-1V50

### 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 number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 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

Skin Irrit. 2; H315

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

nitric acid

Signal word: Danger

Pictograms:



#### Hazard statements

H290

May be corrosive to metals.

H315

Causes skin irritation.

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H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves and eye/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
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**

EUH208 Contains nickel dinitrate. May produce an allergic reaction.

**2.3. Other hazards**

No data available

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

**3.2. Mixtures**

**Chemical characterization**

Mixtures in aqueous solution

**Hazardous components**

| CAS No     | Chemical name                                                                                                                                                                                                                                  |              |                  | Quantity  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-----------|
|            | EC No                                                                                                                                                                                                                                          | Index No     | REACH No         |           |
|            | Classification (Regulation (EC) No 1272/2008)                                                                                                                                                                                                  |              |                  |           |
| 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 H314 EUH071                                                                                                                                                              |              |                  |           |
| 13138-45-9 | nickel dinitrate                                                                                                                                                                                                                               |              |                  | < 0.01 %  |
|            | 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 |              |                  |           |

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      | 1 - < 5 % |
|            | 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                                                                                                                                                                   |                  |           |
| 13138-45-9 | 236-068-5                                                                                                                                                                                                                                                                                             | nickel dinitrate | < 0.01 %  |
|            | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 361,9 mg/kg Skin Irrit. 2; H315: >= 20 - 100 Skin Sens. 1; H317: >= 0,01 - 100 STOT RE 1; H372: >= 1 - 100 STOT RE 2; H373: >= 0,1 - < 1<br>Aquatic Acute 1; H400: M=1<br>Aquatic Chronic 1; H410: M=1 |                  |           |

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

No data available

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#### After inhalation

Provide fresh air.  
Call a doctor if you feel unwell.

#### After contact with skin

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

#### 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.

#### 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 (NO<sub>x</sub>)

#### 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.

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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.

**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

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

**8.1. Control parameters**

**Occupational exposure limits**

| CAS No    | Substance   | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | 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           | 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/m³          |
| Worker DNEL, acute       |                  | inhalation     | local    | 1,6 mg/m³          |
| Consumer DNEL, acute     |                  | inhalation     | systemic | 8,8 mg/m³          |
| Consumer DNEL, acute     |                  | inhalation     | local    | 0,1 mg/m³          |

**PNEC values**

| CAS No                                           | Substance        |             |
|--------------------------------------------------|------------------|-------------|
| Environmental compartment                        |                  | Value       |
| 13138-45-9                                       | nickel dinitrate |             |
| Freshwater                                       |                  | 0,0071 mg/l |
| Freshwater (intermittent releases)               |                  | 0 mg/l      |
| Marine water                                     |                  | 0,0086 mg/l |
| Freshwater sediment                              |                  | 109 mg/kg   |
| Marine sediment                                  |                  | 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  |

**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](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatrill® L

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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 Dermatrill® 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](http://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:                                                   |                   |                     |
| 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   |
| 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   |
| Viscosity / kinematic:                                    |                   | No data available   |
| Water solubility:                                         |                   | completely miscible |
| Solubility in other solvents                              |                   |                     |
| No data available                                         |                   |                     |
| Dissolution rate:                                         |                   | No data available   |
| Partition coefficient n-octanol/water:                    |                   | No data available   |
| Dispersion stability:                                     |                   | 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   |
| Particle characteristics:                                 |                   | No data available   |

**9.2. Other information**

Information with regard to physical hazard classes

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**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**

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**

**Toxicokinetics, 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.

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**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 mg/l    |         |                                          |                    |
| 13138-45-9 | nickel dinitrate     |                  |         |                                          |                    |
|            | oral                 | LD50 361,9 mg/kg | 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 skin irritation.

Causes serious eye damage.

**Sensitising effects**

Contains nickel dinitrate. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Information on likely routes of exposure**

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

**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**

**Endocrine disrupting properties**

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

**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 1559 mg/l     | 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 > 419 mg/l    | 10 d      | several benthic diatoms; see results               | Marine Biology 43:307-315 (1977)          | Ten cultures of benthic diatoms were iso |
|            | Acute bacteria toxicity  | (EC50 > 1000 mg/l) | 3 h       | Activated sludge                                   | Study report (2008)                       | OECD Guideline 209                       |
| 13138-45-9 | nickel dinitrate         |                    |           |                                                    |                                           |                                          |
|            | Acute fish toxicity      | LC50 15,3 mg/l     | 96 h      | Oncorhynchus mykiss                                | Aquatic Toxicology 63 (2003) 65-82 (2003) | other: not reported                      |
|            | Acute algae toxicity     | ErC50 0,237 mg/l   | 72 h      | Ankistrodesmus falcatus                            | Publication (2009)                        | OECD Guideline 201                       |
|            | Acute crustacea toxicity | EC50 0,2663 mg/l   | 48 h      | Ceriodaphnia dubia                                 | Study report (2004)                       | other: American society of testing and m |
|            | Fish toxicity            | NOEC 0,057 mg/l    | 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 0,04 mg/l     | 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**

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.

There are no data available on the mixture itself.

**12.6. Endocrine disrupting properties**

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

#### 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)

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3264                                                   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8                                                         |
| <b>14.4. Packing group:</b>              | III                                                       |
| Hazard label:                            | 8                                                         |
| Classification code:                     | C1                                                        |
| Special Provisions:                      | 274                                                       |
| Limited quantity:                        | 5 L                                                       |
| Excepted quantity:                       | E1                                                        |
| Transport category:                      | 3                                                         |
| Hazard No:                               | 80                                                        |
| Tunnel restriction code:                 | E                                                         |

#### Inland waterways transport (ADN)

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3264                                                   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8                                                         |
| <b>14.4. Packing group:</b>              | III                                                       |
| Hazard label:                            | 8                                                         |
| Classification code:                     | C1                                                        |
| Special Provisions:                      | 274                                                       |
| Limited quantity:                        | 5 L                                                       |
| Excepted quantity:                       | E1                                                        |

#### Marine transport (IMDG)

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3264                                                   |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8                                                         |
| <b>14.4. Packing group:</b>              | III                                                       |
| Hazard label:                            | 8                                                         |
| Special Provisions:                      | 223, 274                                                  |
| Limited quantity:                        | 5 L                                                       |

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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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 75

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

This product is regulated 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): 1 - slightly hazardous to water

### SECTION 16: Other information

#### Changes

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Multielement-Standardlösung 15 Elemente in Salpetersäure 0,5 mol/l

Revision date: 15.08.2023

Product code: 33818

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#### 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  
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       |

#### 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.  
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.  
EUH071 Corrosive to the respiratory tract.  
EUH208 Contains nickel dinitrate. May produce an allergic reaction.

#### 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.)*