

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Multiement-Standard 23 Elementein Salpetersäure 5 % mit Flusssäure 0,5 %

Revision date: 11.04.2025

Product code: 35014

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

### 1.1. Product identifier

Multiement-Standard 23 Elementein Salpetersäure 5 % mit Flusssäure 0,5 %

UFI: E4Y3-139S-N00V-6535

### 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 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

Acute Tox. 3; H311

Acute Tox. 4; H332

Acute Tox. 4; H302

Skin Corr. 1B; H314

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

Hydrofluoric acid

Signal word: Danger

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#### Pictograms:



#### Hazard statements

- H290 May be corrosive to metals.  
H302+H332 Harmful if swallowed or if inhaled.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statements

- P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing and eye protection/face 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.

#### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### Relevant ingredients

| CAS No    | Chemical name   |              |                  | Quantity   |
|-----------|---|--------------|------------------|------------|
|           | EC No   | Index No     | REACH No         |            |
|           | Classification (Regulation (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, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318<br>EUH071 |              |                  |            |
| 7664-39-3 | hydrofluoric acid ... %   |              |                  | < 1 %      |
|           | 231-634-8   | 009-003-00-1 |                  |            |
|           | Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Skin Corr. 1A, Eye Dam. 1; H310 H330 H300 H314<br>H318      |              |                  |            |

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  | 5 - < 10 % |
|           |           | inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20<br>- 100 Skin Corr. 1B; H314: >= 5 - < 20   |            |
| 7664-39-3 | 231-634-8 | hydrofluoric acid ... %  | < 1 %      |
|           |           | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); inhalation:<br>LC50 = 2240 ppm (gases); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg Skin Corr. 1A; H314:<br>>= 7 - 100 Skin Corr. 1B; H314: >= 1 - < 7 Eye Irrit. 2; H319: >= 0,1 - < 1 |            |

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#### **Further Information**

No data available

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

#### **4.1. Description of first aid measures**

##### **General information**

First aider: Pay attention to self-protection!

##### **After inhalation**

Provide fresh air.

Call a physician immediately.

##### **After contact with skin**

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

##### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

##### **After ingestion**

Rinse mouth immediately and drink plenty of water.

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

Call a physician immediately.

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

Causes burns.

Irritant

Cough

Dyspnoea

Vomiting

Methaemoglobinaemia

Risk of serious damage to eyes.

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

It is recommended to consult a doctor with experience in the treatment of lesions caused by hydrofluoric acid

### **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>)

Hydrogen fluoride

#### **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.

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**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**

Do not breathe vapour/aerosol. 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).  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal.

**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

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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, Glass

The product develops hydrogen in an aqueous solution in contact with metals.

**Hints on joint storage**

national regulations

**Further information on storage conditions**

Keep container tightly closed.

**7.3. Specific end use(s)**

Laboratory chemicals

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

**8.1. Control parameters**

**Occupational exposure limits**

| CAS No    | Substance                | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|--------------------------|-----|-------------------|---------------------|---------------|--------|
| 7664-39-3 | Hydrogen fluoride (as F) | 1.8 | 1.5               |                     | TWA (8 h)     |        |
|           |                          | 3   | 2.5               |                     | STEL (15 min) |        |
| 7697-37-2 | Nitric acid              | 1   | 2.6               |                     | STEL (15 min) |        |

**Biological limit values**

| CAS No    | Substance         | Parameter | Value  | Test material | Sampling time  |
|-----------|-------------------|-----------|--------|---------------|----------------|
| 7664-39-3 | Hydrogen fluoride | Fluoride  | 2 mg/L | Urine         | Prior to shift |

**DNEL/DMEL values**

| CAS No                   | Substance               | Exposure route | Effect                 | Value |
|--------------------------|-------------------------|----------------|------------------------|-------|
| 7664-39-3                | hydrofluoric acid ... % |                |                        |       |
| Worker DNEL, long-term   | inhalation              | systemic       | 1,5 mg/m <sup>3</sup>  |       |
| Worker DNEL, acute       | inhalation              | systemic       | 2,5 mg/m <sup>3</sup>  |       |
| Worker DNEL, long-term   | inhalation              | local          | 1,5 mg/m <sup>3</sup>  |       |
| Worker DNEL, acute       | inhalation              | local          | 2,5 mg/m <sup>3</sup>  |       |
| Consumer DNEL, long-term | inhalation              | systemic       | 0,03 mg/m <sup>3</sup> |       |
| Consumer DNEL, acute     | inhalation              | systemic       | 0,03 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | inhalation              | local          | 0,2 mg/m <sup>3</sup>  |       |
| Consumer DNEL, acute     | inhalation              | local          | 1,25 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | oral                    | systemic       | 0,01 mg/kg bw/day      |       |
| Consumer DNEL, acute     | oral                    | systemic       | 0,01 mg/kg bw/day      |       |

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**PNEC values**

| CAS No   | Substance               |             |
|--|-------------------------|-------------|
| Environmental compartment                        |                         | Value       |
| 7664-39-3  | hydrofluoric acid ... % |             |
| Freshwater                                       |                         | 0,89 mg/l   |
| Marine water                                     |                         | 0,089 mg/l  |
| Freshwater sediment                              |                         | 3,38 mg/kg  |
| Marine sediment                                  |                         | 0,338 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                         | 51 mg/l     |
| Soil   |                         | 10,6 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 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](http://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**

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur 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.

**Thermal hazards**

No data available

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**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:  | like: Nitric acid |                     |
| 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   |
| pH-Value:   |                   | acidic              |
| 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   |
| Relative 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**

|                           |                   |
|---------------------------|-------------------|
| Explosive properties      |                   |
| No data available         |                   |
| Sustained combustibility: | No data available |
| Self-ignition temperature |                   |
| Solid:                    | No data available |
| Gas:                      | No data available |
| Oxidizing properties      |                   |
| Oxidising agent           |                   |

**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:       |                   |

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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.

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.

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Glass

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 mixture itself.

**Acute toxicity**

Toxic in contact with skin.

Harmful if inhaled.

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1000 mg/kg; ATE (dermal) 1000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,935 mg/l



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| CAS No    | Chemical name           |               |         |                     |                    |
|-----------|-------------------------|---------------|---------|---------------------|--------------------|
|           | Exposure route          | Dose          | Species | Source              | Method             |
| 7697-37-2 | nitric acid             |               |         |                     |                    |
|           | inhalation vapour       | ATE 2,65 mg/l |         |                     |                    |
| 7664-39-3 | hydrofluoric acid ... % |               |         |                     |                    |
|           | oral                    | ATE 5 mg/kg   |         |                     |                    |
|           | dermal                  | ATE 5 mg/kg   |         |                     |                    |
|           | inhalation vapour       | ATE 0,5 mg/l  |         |                     |                    |
|           | inhalation dust/mist    | ATE 0,05 mg/l |         |                     |                    |
|           | inhalation (1 h) gas    | LC50 2240 ppm | Rat     | Study report (1990) | OECD Guideline 403 |

#### 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.  
 Following ingestion Gastric perforation  
 Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.  
 Irritating to respiratory system.  
 Pulmonary oedema  
 see also Section 4

#### Sensitising effects

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

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
 Carcinogenicity: 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.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### Practical experience

There are no data available on the mixture itself.

#### 11.2. Information on other hazards

##### 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.

##### Other information

There are no data available on the mixture itself.

##### Further information

There are no data available on the mixture itself.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

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

| 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                       |
| 7664-39-3 | hydrofluoric acid ... % |                      |           |  |   |  |
|           | Acute fish toxicity     | LC50 299 mg/l        | 96 h      | Salmo trutta                                       | REACH Registration Dossier              | other: U.S Environmental Protection Agen |
|           | Acute algae toxicity    | ErC50 43 mg/l        | 96 h      | various algae species                              | REACH Registration Dossier              | Methods not detailed in the review.      |
|           | Crustacea toxicity      | NOEC 3,7 mg/l        | 21 d      | Daphnia magna                                      | REACH Registration Dossier              | The publication is a review article of v |
|           | Acute bacteria toxicity | EC50 2930 mg/l ( )   | 3 h       | Activated sludge                                   | REACH Registration Dossier              | 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               |
|-----------|-------------------------|---------|---------------|----------------------|
| 7664-39-3 | hydrofluoric acid ... % | 53 - 58 | not specified | REACH Registration D |

**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.

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

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**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 2922  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, Hydrofluoric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | II   |
| Hazard label:                            | 8+6.1  |
| Classification code:                     | CT1  |
| Special Provisions:                      | 274  |
| Limited quantity:                        | 1 L  |
| Excepted quantity:                       | E2   |
| Transport category:                      | 2  |
| Hazard No:                               | 86   |
| Tunnel restriction code:                 | E  |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2922  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, Hydrofluoric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | II   |
| Hazard label:                            | 8+6.1  |
| Classification code:                     | CT1  |
| Special Provisions:                      | 274 802  |
| Limited quantity:                        | 1 L  |
| Excepted quantity:                       | E2   |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2922  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, Hydrofluoric acid) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | II   |
| Hazard label:                            | 8+6.1  |
| Special Provisions:                      | 274  |
| Limited quantity:                        | 1 L  |
| Excepted quantity:                       | E2   |
| EmS:                                     | F-A, S-B   |

**Air transport (ICAO-TI/IATA-DGR)**

|                                       |  |
|---------------------------------------|--|
| <b>14.1. UN number or ID number:</b>  | UN 2922  |
| <b>14.2. UN proper shipping name:</b> | CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, Hydrofluoric acid) |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Multielement-Standard 23 Elementein Salpetersäure 5 % mit Flusssäure 0,5 %

Revision date: 11.04.2025

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|  |            |
|--|------------|
| <b>14.3. Transport hazard class(es):</b> | 8          |
| <b>14.4. Packing group:</b>              | II         |
| Hazard label:                            | 8+6.1      |
| Special Provisions:                      | A3 A4 A803 |
| Limited quantity Passenger:              | 0.5 L      |
| Passenger LQ:                            | Y840       |
| Excepted quantity:                       | E2         |
| IATA-packing instructions - Passenger:   | 851        |
| IATA-max. quantity - Passenger:          | 1 L        |
| IATA-packing instructions - Cargo:       | 855        |
| IATA-max. quantity - Cargo:              | 30 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 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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

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

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

### SECTION 16: Other information

#### Abbreviations and acronyms

Ox. Liq: Oxidising liquid  
Met. Corr: Substance or mixture corrosive to metals  
Acute Tox: Acute toxicity  
Skin Corr: Skin corrosion  
Eye Dam: Eye damage

#### 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. 3; H311  | Calculation method       |
| Acute Tox. 4; H332  | Calculation method       |
| Acute Tox. 4; H302  | Calculation method       |
| Skin Corr. 1B; H314 | Calculation method       |
| Eye Dam. 1; H318    | Calculation method       |

#### Relevant H and EUH statements (number and full text)

H272 May intensify fire; oxidiser.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Multiement-Standard 23 Elementein Salpetersäure 5 % mit Flusssäure 0,5 %

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|           |  |
|-----------|--|
| H290      | May be corrosive to metals.              |
| H300      | Fatal if swallowed.                      |
| H302      | Harmful if swallowed.                    |
| H302+H332 | Harmful if swallowed or if inhaled.      |
| H310      | Fatal in contact with skin.              |
| H311      | Toxic in contact with skin.              |
| H314      | Causes severe skin burns and eye damage. |
| H318      | Causes serious eye damage.               |
| H330      | Fatal if inhaled.                        |
| H331      | Toxic if inhaled.                        |
| H332      | Harmful if inhaled.                      |
| 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. Provide appropriate information, instructions and training to users

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*