

**Alcoholic nitric acid, 3% Nital**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Alcoholic nitric acid, 3% Nital

**Further trade names**Alkoholische Salpetersäure 3% Nital / Alcoholic nitric acid, 3% Nital  
order number 92002597 - 1 L

UFI: FXA8-R7Q6-E99D-XSAG

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Reagents and laboratory chemicals (Etching agent)  
Restricted to professional users.**1.3. Details of the supplier of the safety data sheet**

|                 |                       |
|-----------------|-----------------------|
| Company name:   | ATM Qness GmbH        |
| Street:         | Emil-Reinert-Straße 2 |
| Place:          | D-57636 Mammelzen     |
| Telephone:      | +49 (0) 2681 95390    |
| E-mail:         | info@qatm.com         |
| Contact person: | info@qatm.com         |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Flam. Liq. 2; H225  
Met. Corr. 1; H290  
Skin Irrit. 2; H315  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

No need for classification as corrosive in spite of the extreme pH.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

nitric acid

**Signal word:** Danger**Pictograms:****Hazard statements**

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H290 | May be corrosive to metals.         |
| H315 | Causes skin irritation.             |
| H318 | Causes serious eye damage.          |

**Precautionary statements**

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280           | Wear protective gloves and eye protection/face protection.                                     |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if         |

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### Precautionary statements

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
|           | present and easy to do. Continue rinsing.                                                |
| P310      | Immediately call a POISON CENTER/doctor.                                                 |
| P370+P378 | In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool.                                             |

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Relevant ingredients

| CAS No    | Chemical name                                                                                      |              |                  | Quantity    |
|-----------|----------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|           | EC No                                                                                              | Index No     | REACH No         |             |
|           | Classification (Regulation (EC) No 1272/2008)                                                      |              |                  |             |
| 64-17-5   | ethanol; ethyl alcohol                                                                             |              |                  | 90 - < 95 % |
|           | 200-578-6                                                                                          | 603-002-00-5 | 01-2119457610-43 |             |
|           | Flam. Liq. 2, Eye Irrit. 2; H225 H319                                                              |              |                  |             |
| 7697-37-2 | nitric acid                                                                                        |              |                  | 3 %         |
|           | 231-714-2                                                                                          | 007-030-00-3 |                  |             |
|           | Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318 EUH071 |              |                  |             |
| 78-93-3   | butanone; ethyl methyl ketone                                                                      |              |                  | < 1 %       |
|           | 201-159-0                                                                                          | 606-002-00-3 | 01-2119457290-43 |             |
|           | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066                                       |              |                  |             |

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                                                                                            |             |
| 64-17-5   | 200-578-6 | ethanol; ethyl alcohol                                                                                                              | 90 - < 95 % |
|           |           | inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100                                   |             |
| 7697-37-2 | 231-714-2 | nitric acid                                                                                                                         | 3 %         |
|           |           | 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 |             |

### Further Information

No need for classification as corrosive in spite of the extreme pH.  
 Specific concentration limit:  
 CAS No. 7697-37-2:  
 Skin Corr. 1A; H314: C = 20 %  
 Skin Corr. 1B; H314: 5 % = C < 20 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If experiencing respiratory symptoms: Call a doctor.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation,

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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. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor if you feel unwell. Rinse mouth.

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

Dizziness, Inebriation, Narcotic effects  
Vomiting

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet  
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Highly flammable. Vapours can form explosive mixtures with air.  
In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), Pyrolysis products, toxic

**5.3. Advice for firefighters**

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

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

**For non-emergency personnel**

Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment.

**For emergency responders**

Wear personal protection equipment (refer to 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**

Stop leak if safe to do so. Cover drains.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.  
Ventilate affected area.

**Other information**

Use non-sparking tools.

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Clean contaminated articles and floor according to the environmental legislation.

### 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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Avoid: aerosol or mist formation

Use personal protection equipment.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air. Use non-sparking tools.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep/Store only in original container.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. metals.

#### Further information on storage conditions

Protect against: Heat

### 7.3. Specific end use(s)

Reagents and laboratory chemicals (Etching agent)

Restricted to professional users.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

| CAS No    | Substance                         | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|-----------------------------------|------|-------------------|-----------|---------------|--------|
| 78-93-3   | Butan-2-one (methyl ethyl ketone) | 200  | 600               |           | TWA (8 h)     | WEL    |
|           |                                   | 300  | 899               |           | STEL (15 min) | WEL    |
| 64-17-5   | Ethanol                           | 1000 | 1920              |           | TWA (8 h)     | WEL    |
| 7697-37-2 | Nitric acid                       | 1    | 2.6               |           | STEL (15 min) | WEL    |
| 67-63-0   | Propan-2-ol                       | 400  | 999               |           | TWA (8 h)     | WEL    |
|           |                                   | 500  | 1250              |           | STEL (15 min) | WEL    |

#### Biological Monitoring Guidance Values (EH40)

| CAS No  | Substance   | Parameter   | Value     | Test material | Sampling time |
|---------|-------------|-------------|-----------|---------------|---------------|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine         | Post shift    |

#### DNEL/DMEL values

| CAS No                   | Substance              |                |          |                  |
|--------------------------|------------------------|----------------|----------|------------------|
| DNEL type                |                        | Exposure route | Effect   | Value            |
| 64-17-5                  | ethanol; ethyl alcohol |                |          |                  |
| Worker DNEL, long-term   |                        | dermal         | systemic | 343 mg/kg bw/day |
| Worker DNEL, long-term   |                        | inhalation     | systemic | 950 mg/m³        |
| Consumer DNEL, long-term |                        | oral           | systemic | 87 mg/kg bw/day  |
| Consumer DNEL, long-term |                        | inhalation     | systemic | 114 mg/m³        |

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### DNEL/DMEL values

| CAS No  | Substance                     | Exposure route | Effect   | Value                 |
|---------|-------------------------------|----------------|----------|-----------------------|
| 78-93-3 | butanone; ethyl methyl ketone | dermal         | systemic | 206 mg/kg bw/day      |
| 78-93-3 | butanone; ethyl methyl ketone | inhalation     | systemic | 600 mg/m <sup>3</sup> |
| 78-93-3 | butanone; ethyl methyl ketone | dermal         | systemic | 1161 mg/kg bw/day     |
| 78-93-3 | butanone; ethyl methyl ketone | inhalation     | systemic | 106 mg/m <sup>3</sup> |
| 78-93-3 | butanone; ethyl methyl ketone | dermal         | systemic | 412 mg/kg bw/day      |
| 78-93-3 | butanone; ethyl methyl ketone | oral           | systemic | 31 mg/kg bw/day       |

### PNEC values

| CAS No  | Substance                     | Value      |
|---------|-------------------------------|------------|
| 64-17-5 | ethanol; ethyl alcohol        |            |
| 64-17-5 | ethanol; ethyl alcohol        | 0,96 mg/l  |
| 64-17-5 | ethanol; ethyl alcohol        | 2,75 mg/l  |
| 64-17-5 | ethanol; ethyl alcohol        | 0,79 mg/l  |
| 64-17-5 | ethanol; ethyl alcohol        | 3,6 mg/kg  |
| 64-17-5 | ethanol; ethyl alcohol        | 2,9 mg/kg  |
| 64-17-5 | ethanol; ethyl alcohol        | 0,38 mg/kg |
| 64-17-5 | ethanol; ethyl alcohol        | 580 mg/l   |
| 64-17-5 | ethanol; ethyl alcohol        | 0,63 mg/kg |
| 78-93-3 | butanone; ethyl methyl ketone |            |
| 78-93-3 | butanone; ethyl methyl ketone | 55,8       |
| 78-93-3 | butanone; ethyl methyl ketone | 55,8       |
| 78-93-3 | butanone; ethyl methyl ketone | 55,8       |
| 78-93-3 | butanone; ethyl methyl ketone | 284,74     |
| 78-93-3 | butanone; ethyl methyl ketone | 284,7      |
| 78-93-3 | butanone; ethyl methyl ketone | 1000       |
| 78-93-3 | butanone; ethyl methyl ketone | 709        |
| 78-93-3 | butanone; ethyl methyl ketone | 22,5       |

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles (EN 166)

##### Hand protection

Wear suitable gloves. (EN ISO 374)

Suitable material: (Breakthrough time: >= 480 min)

FKM (fluoro rubber) - Thickness of the glove material: 0,4 mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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### Skin protection

Wear suitable protective clothing.

### Respiratory protection

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation

### Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                           |                       |
|-----------------------------------------------------------|-----------------------|
| Physical state:                                           | Liquid                |
| Colour:                                                   | colourless            |
| Odour:                                                    | characteristic        |
| Odour threshold:                                          | not determined        |
| Melting point/freezing point:                             | -114,5 °C             |
| Boiling point or initial boiling point and boiling range: | 78 °C                 |
| Flammability:                                             | Highly flammable      |
| Lower explosion limits:                                   | 3,5 vol. %            |
| Upper explosion limits:                                   | 15 vol. %             |
| Flash point:                                              | 13 °C                 |
| Auto-ignition temperature:                                | 425 °C                |
| Decomposition temperature:                                | not determined        |
| pH-Value (at 20 °C):                                      | < 1                   |
| Viscosity / kinematic:                                    | not determined        |
| Water solubility (at 20 °C):                              | 1 g/l                 |
| Solubility in other solvents                              | not determined        |
| Partition coefficient n-octanol/water:                    | not determined        |
| Vapour pressure (at 20 °C):                               | 59 hPa                |
| Density (at 20 °C):                                       | 0,8 g/cm <sup>3</sup> |
| Relative vapour density:                                  | not determined        |
| Particle characteristics:                                 | not applicable        |

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

Vapours can form explosive mixtures with air.

Sustained combustibility: Sustained combustibility

#### Other safety characteristics

Solvent content: 97 %

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable. Corrosive to metals

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### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### 10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances. metals.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Pyrolysis products, toxic

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes

#### 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) > 50 mg/l; ATE (inhalation dust/mist) > 12.5 mg/l

| CAS No    | Chemical name           |                  |         |                         |        |
|-----------|-------------------------|------------------|---------|-------------------------|--------|
|           | Exposure route          | Dose             | Species | Source                  | Method |
| 64-17-5   | ethanol; ethyl alcohol  |                  |         |                         |        |
|           | oral                    | LD50 10470 mg/kg | Rat     | Pre-supplier/manufacter |        |
|           | inhalation (4 h) vapour | LC50 124,7 mg/l  | Rat     | Pre-supplier/manufacter |        |
| 7697-37-2 | nitric acid             |                  |         |                         |        |
|           | inhalation vapour       | ATE 2,65 mg/l    |         |                         |        |

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

No need for classification as corrosive in spite of the extreme pH.

#### 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

oral, Skin contact, Eye contact.

Inhalation: aerosol or mist formation

### 11.2. Information on other hazards

#### Endocrine disrupting properties

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

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

### Other information

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Damaging effect on aquatic ecosystems possible due to change in the pH value.

| CAS No  | Chemical name                 |                        |        |                                      |                           |        |
|---------|-------------------------------|------------------------|--------|--------------------------------------|---------------------------|--------|
|         | Aquatic toxicity              | Dose                   | [h][d] | Species                              | Source                    | Method |
| 64-17-5 | ethanol; ethyl alcohol        |                        |        |                                      |                           |        |
|         | Acute crustacea toxicity      | EC50 9268 - 14221 mg/l | 48 h   | Daphnia magna                        | IUCLID                    |        |
| 78-93-3 | butanone; ethyl methyl ketone |                        |        |                                      |                           |        |
|         | Acute fish toxicity           | LC50 2993 mg/l         | 96 h   | Pimephales promelas (fathead minnow) | Pre-supplier/manufacturer |        |
|         | Acute algae toxicity          | ErC50 2029 mg/l        | 96 h   | Pseudokirchneriella subcapitata      | Pre-supplier/manufacturer |        |
|         | Acute crustacea toxicity      | EC50 308 mg/l          | 48 h   | Daphnia magna (Big water flea)       | Pre-supplier/manufacturer |        |

### 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name                                       |       |    |              |
|---------|-----------------------------------------------------|-------|----|--------------|
|         | Method                                              | Value | d  | Source       |
|         | Evaluation                                          |       |    |              |
| 64-17-5 | ethanol; ethyl alcohol                              |       |    |              |
|         | Biodegradation                                      | 84 %  | 20 | Manufacturer |
|         | Readily biodegradable (according to OECD criteria). |       |    |              |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No    | Chemical name                 | Log Pow |
|-----------|-------------------------------|---------|
| 64-17-5   | ethanol; ethyl alcohol        | -0,35   |
| 7697-37-2 | nitric acid                   | -0,21   |
| 78-93-3   | butanone; ethyl methyl ketone | 0,3     |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

Damaging effect on aquatic ecosystems possible due to change in the pH value.

### Further information

Before discharge into sewage plants the product normally needs to be neutralised.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Collect the waste separately. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number or ID number:

UN 2924

#### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol; ethyl alcohol, nitric acid [C&lt;= 70 %])

#### 14.3. Transport hazard class(es):

3

#### 14.4. Packing group:

II

Hazard label:

3+8



Classification code:

FC

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

338

Tunnel restriction code:

D/E

### Inland waterways transport (ADN)

#### 14.1. UN number or ID number:

UN 2924

#### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol; ethyl alcohol, nitric acid [C&lt;= 70 %])

#### 14.3. Transport hazard class(es):

3

#### 14.4. Packing group:

II

Hazard label:

3+8



Classification code:

FC

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

### Marine transport (IMDG)

#### 14.1. UN number or ID number:

UN 2924

#### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol; ethyl alcohol, nitric acid [C&lt;= 70 %])

#### 14.3. Transport hazard class(es):

3

#### 14.4. Packing group:

II

Hazard label:

3+8

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Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-E, S-C

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

**14.1. UN number or ID number:** UN 2924  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol; ethyl alcohol, nitric acid [C<= 70 %])  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3+8



Special Provisions: A3  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y340  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 352  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 363  
 IATA-max. quantity - Cargo: 5 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No  
 Marine pollutant: -

### 14.6. Special precautions for user

Warning: Flammable liquids! Vapours can form explosive mixtures with air. Corrosive to metals.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### Other applicable information

## 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 40, Entry 75

Directive 2010/75/EU on industrial emissions: < 100 %

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

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

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work protection guideline' (94/33/EC).  
Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

Ox. Liq. 3: Oxidising liquids, hazard category 3  
Met. Corr. 1: Corrosive to metals, hazard category 1  
Flam. Liq. 2: Flammable liquids, hazard category 2  
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  
Eye Irrit. 2: Eye irritation, hazard category 2  
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging  
EU: European Union  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
REACH: Registration, Evaluation and Authorization of Chemicals  
UN: United Nations  
PBT: Persistent, Bioaccumulative, Toxic  
SVHC: Substance of Very High Concern  
vPvB: very Persistent, very Bioaccumulative  
ATE: Acute Toxicity Estimates  
BCF: Bio-Concentration Factor  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
VOC: Volatile Organic Compounds  
DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)  
EN: European Standard  
ISO: International Organization for Standardization  
IUCLID: International Uniform Chemical Information Database  
LC50: Lethal Concentration, 50 %  
LD50: Lethal Dose, 50 %  
LL50: Lethal Loading, 50 %  
OECD: Organisation for Economic Co-operation and Development  
EC50: Effective Concentration 50 %  
M-Faktor: Multiplication Factor  
EL50: Effect Loading, 50 %  
ErC50: Effective Concentration 50 %, growth rate  
M-Faktor: Multiplication Factor  
NOEC: No Observed Effect Concentration  
ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road  
DGR: Dangerous Goods Regulations  
EmS: Emergency Schedules  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organization  
IE: Industrial Emissions  
IMDG: International Maritime Code for Dangerous Goods  
LQ: Limited Quantity  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships

## Alcoholic nitric acid, 3% Nital

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MFAG: Medical First Aid Guide

RID: Regulations concerning the International carriage of Dangerous goods by rail

TI: Technical Instructions

### Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

### Classification for mixtures and used evaluation method

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 2; H225  | On basis of test data    |
| 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)

|        |                                                       |
|--------|-------------------------------------------------------|
| H225   | Highly flammable liquid and vapour.                   |
| H272   | May intensify fire; oxidiser.                         |
| H290   | May be corrosive to metals.                           |
| H314   | Causes severe skin burns and eye damage.              |
| H315   | Causes skin irritation.                               |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H331   | Toxic if inhaled.                                     |
| H336   | May cause drowsiness or dizziness.                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH071 | Corrosive to the respiratory tract.                   |

### Further Information

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.

Observe in addition any national regulations!

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