



**Neutron<sup>®</sup>Pharmachemical Co.**  
Manufacturer of Laboratory Chemical & Pharmaceutical Materials

# NITRIC ACID 69% EXTRA PURE

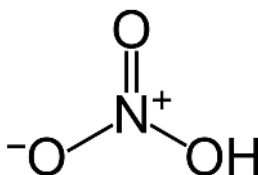
## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Reference number: 00223  
Issue date: 29-09-2022 Revision date: 29-09-2022 Supersedes version of: 29-09-2022 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : NITRIC ACID 69% EXTRA PURE  
EC Index-No. : 007-004-00-1  
EC-No. : 231-714-2  
CAS-No. : 7697-37-2  
Product code : 4.0340  
Type of product : Acids  
Formula : HNO<sub>3</sub>  
Chemical structure :



Synonyms : Hydrogen nitrate

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Company

NEUTRON PHARMACHEMICAL CO  
11, 3th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.  
T-021-66906732-3 F-021-66581408  
info@neutronco.com www.neutronco.com

#### 1.4. Emergency telephone number

Emergency number : 125

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Liquids, Category 3 H272  
Skin corrosion/irritation, Category 1 H314  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Causes severe skin burns and eye damage.

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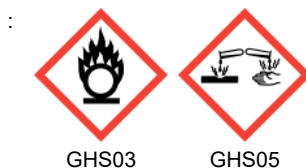
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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS03

GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H272 - May intensify fire; oxidiser.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P220 - Keep away from clothing and other combustible materials.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

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 or doctor.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name        | Product identifier                                                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------|-----------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| NITRIC ACID | CAS-No.: 7697-37-2<br>EC-No.: 231-714-2<br>EC Index-No.: 007-004-00-1 | 69 – 72 | Ox. Liq. 2, H272<br>Skin Corr. 1A, H314                         |
| Water       | CAS-No.: 7732-18-5<br>EC-No.: 231-791-2                               | 28 – 31 | Not classified                                                  |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact

: Wash with plenty of water/.... Get medical advice/attention. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after skin contact

: Burns.

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Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Burns.

### 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 : Dry powder. Water spray. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use extinguishing media containing water. Carbon dioxide (CO<sub>2</sub>). Foam.

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

Fire hazard : May cause fire or explosion; strong oxidiser. May intensify fire; oxidiser.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion.

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|                               |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe dust, fume, gas, mist, spray, vapours. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Always wash hands after handling the product.                                                                                 |

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

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.     |
| Storage conditions     | : Keep in fireproof place. Store in a closed container. Store locked up. Store in a well-ventilated place. Keep cool. |
| Incompatible materials | : Heat sources. combustible materials.                                                                                |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| NITRIC ACID (7697-37-2)                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Salpetersäure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AGW (OEL TWA) [1]                                 | 2.6 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AGW (OEL TWA) [2]                                 | 1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remark                                            | EU, 13, 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Portugal - Occupational Exposure Limits           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Ácido nítrico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OEL TWA [ppm]                                     | 2 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OEL STEL [ppm]                                    | 4 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Spain - Occupational Exposure Limits              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Ácido nítrico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| VLA-EC (OEL STEL)                                 | 2.6 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VLA-EC (OEL STEL) [ppm]                           | 1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remark                                            | (2007), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.) |
| United Kingdom - Occupational Exposure Limits     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Nitric acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WEL STEL (OEL STEL)                               | 2.6 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WEL STEL (OEL STEL) [ppm]                         | 1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| USA - ACGIH - Occupational Exposure Limits        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Nitric acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-------------------------|-------------------------------|
| ACGIH OEL TWA [ppm]     | 2 ppm                         |
| ACGIH OEL STEL [ppm]    | 4 ppm                         |
| Remark (ACGIH)          | URT & eye irr; dental erosion |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear fire/flammable resistant/retardant clothing.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or face shield

#### 8.2.2.2. Skin protection

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### 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                    |
| Appearance     | : Clear liquid.             |
| Molecular mass | : 63.01 g/mol               |
| Colour         | : Colourless.               |
| Odour          | : Acrid. suffocating odour. |

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|                                                 |                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------|
| Odour threshold                                 | : 0.29 – 0.98 ppm<br>0.75 – 2.5 mg/m <sup>3</sup>                     |
| pH                                              | : < 1 at 20°C                                                         |
| Relative evaporation rate (butylacetate=1)      | : No data available                                                   |
| Melting point                                   | : Not applicable                                                      |
| Freezing point                                  | : -42 – -38 °C                                                        |
| Boiling point                                   | : 122 °C                                                              |
| Flash point                                     | : No data available                                                   |
| Auto-ignition temperature                       | : No data available                                                   |
| Decomposition temperature                       | : No data available                                                   |
| Flammability (solid, gas)                       | : Not applicable                                                      |
| Vapour pressure                                 | : 48 mm Hg at 20°C                                                    |
| Relative vapour density at 20 °C                | : 2 – 3                                                               |
| Relative density                                | : No data available                                                   |
| Density                                         | : 1.41 g/cm <sup>3</sup> at 20°C                                      |
| Solubility                                      | : Water: Exothermically miscible in water<br>Ether: Miscible in ether |
| Partition coefficient n-octanol/water (Log Pow) | : -2.3 (OECD 107: Shake Flask Method)                                 |
| Viscosity, kinematic                            | : No data available                                                   |
| Viscosity, dynamic                              | : No data available                                                   |
| Explosive properties                            | : No data available                                                   |
| Oxidising properties                            | : May cause fire or explosion; strong oxidiser.                       |
| Explosive limits                                | : No data available                                                   |

### 9.2. Other information

Refractive index : 1.397 (16.5°C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. May intensify fire; oxidiser.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Acute toxicity (oral)       | : Not classified                               |
| Acute toxicity (dermal)     | : Not classified                               |
| Acute toxicity (inhalation) | : Not classified                               |
| Skin corrosion/irritation   | : Causes severe skin burns.<br>pH: < 1 at 20°C |

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|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| Serious eye damage/irritation     | : Assumed to cause serious eye damage<br>pH: < 1 at 20°C |
| Respiratory or skin sensitisation | : Not classified                                         |
| Germ cell mutagenicity            | : Not classified                                         |
| Carcinogenicity                   | : Not classified                                         |
| Reproductive toxicity             | : Not classified                                         |
| STOT-single exposure              | : Not classified                                         |
| STOT-repeated exposure            | : Not classified                                         |
| Aspiration hazard                 | : Not classified                                         |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| Ecology - general                                         | : Before neutralisation, the product may represent a danger to aquatic organisms. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                  |

### 12.2. Persistence and degradability

#### NITRIC ACID (7697-37-2)

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

### 12.3. Bioaccumulative potential

#### NITRIC ACID 69% EXTRA PURE (7697-37-2)

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -2.3 (OECD 107: Shake Flask Method) |
|-------------------------------------------------|-------------------------------------|

#### NITRIC ACID (7697-37-2)

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                 |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Additional information                     | : Hazardous waste due to potential risk of explosion.                                                                                                         |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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### 14.1 UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2031 |
| UN-No. (IMDG) | : UN 2031 |
| UN-No. (IATA) | : UN 2031 |
| UN-No. (ADN)  | : UN 2031 |
| UN-No. (RID)  | : UN 2031 |

### 14.2. UN proper shipping name

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : NITRIC ACID                                                                                                              |
| Proper Shipping Name (IMDG)           | : NITRIC ACID                                                                                                              |
| Proper Shipping Name (IATA)           | : Nitric acid                                                                                                              |
| Proper Shipping Name (ADN)            | : NITRIC ACID                                                                                                              |
| Proper Shipping Name (RID)            | : NITRIC ACID                                                                                                              |
| Transport document description (ADR)  | : UN 2031 NITRIC ACID (NITRIC ACID, other than red fuming, with $\geq 65\%$ but $\leq 70\%$ nitric acid), 8 (5.1), II, (E) |
| Transport document description (IMDG) | : UN 2031 NITRIC ACID (NITRIC ACID, other than red fuming, with $\geq 65\%$ but $\leq 70\%$ nitric acid), 8 (5.1), II      |
| Transport document description (IATA) | : UN 2031 Nitric acid (NITRIC ACID, other than red fuming, with $\geq 65\%$ but $\leq 70\%$ nitric acid), 8 (5.1), II      |
| Transport document description (ADN)  | : UN 2031 NITRIC ACID (NITRIC ACID, other than red fuming, with $\geq 65\%$ but $\leq 70\%$ nitric acid), 8 (5.1), II      |
| Transport document description (RID)  | : UN 2031 NITRIC ACID (NITRIC ACID, other than red fuming, with $\geq 65\%$ but $\leq 70\%$ nitric acid), 8 (5.1), II      |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADR) | : 8 (5.1) |
| Danger labels (ADR)              | : 8, 5.1  |
|                                  | :         |



#### IMDG

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IMDG) | : 8 (5.1) |
| Danger labels (IMDG)              | : 8, 5.1  |
|                                   | :         |



#### IATA

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IATA) | : 8 (5.1) |
| Danger labels (IATA)              | : 8, 5.1  |
|                                   | :         |



#### ADN

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADN) | : 8 (5.1) |
| Danger labels (ADN)              | : 8, 5.1  |
|                                  | :         |



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### RID

Transport hazard class(es) (RID) : 8 (5.1)  
Danger labels (RID) : 8, 5.1



### 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II  
Packing group (ADN) : II  
Packing group (RID) : II

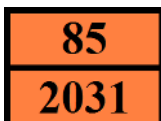
### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : CO1  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02  
Special packing provisions (ADR) : PP81, B15  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T8  
Portable tank and bulk container special provisions (ADR) : TP2  
Tank code (ADR) : L4BN  
Tank special provisions (ADR) : TU42  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV24  
Hazard identification number (Kemler No.) : 85  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2R

#### Transport by sea

Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP81  
IBC packing instructions (IMDG) : IBC02  
IBC special provisions (IMDG) : B15, B20  
Tank instructions (IMDG) : T8  
Tank special provisions (IMDG) : TP2  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-Q  
Stowage category (IMDG) : D  
Segregation (IMDG) : SGG1A, SG6, SG16, SG17, SG19, SG36, SG49

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|                                    |                                                                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties and observations (IMDG) | : Colourless liquid.Oxidant; may cause fire in contact with organic materials such as wood, cotton or straw, evolving highly toxic gases (brown fumes). Highly corrosive to most metals. Causes severe burns to skin, eyes and mucous membranes. |
| MFAG-No                            | : 157                                                                                                                                                                                                                                            |

### Air transport

|                                              |             |
|----------------------------------------------|-------------|
| PCA Excepted quantities (IATA)               | : E0        |
| PCA Limited quantities (IATA)                | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA)              | : Forbidden |
| PCA max net quantity (IATA)                  | : Forbidden |
| CAO packing instructions (IATA)              | : 855       |
| CAO max net quantity (IATA)                  | : 30L       |
| Special provisions (IATA)                    | : A1        |
| ERG code (IATA)                              | : 8L        |

### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : CO1    |
| Limited quantities (ADN)          | : 1 L    |
| Excepted quantities (ADN)         | : E2     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### Rail transport

|                                                                         |               |
|-------------------------------------------------------------------------|---------------|
| Classification code (RID)                                               | : CO1         |
| Limited quantities (RID)                                                | : 1L          |
| Excepted quantities (RID)                                               | : E2          |
| Packing instructions (RID)                                              | : P001, IBC02 |
| Special packing provisions (RID)                                        | : PP81, B15   |
| Mixed packing provisions (RID)                                          | : MP15        |
| Portable tank and bulk container instructions (RID)                     | : T8          |
| Portable tank and bulk container special provisions (RID)               | : TP2         |
| Tank codes for RID tanks (RID)                                          | : L4BN        |
| Special provisions for RID tanks (RID)                                  | : TU42        |
| Transport category (RID)                                                | : 2           |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW24        |
| Colis express (express parcels) (RID)                                   | : CE6         |
| Hazard identification number (RID)                                      | : 85          |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                                          |
|----------------------------------------|------------------------------------------|
| Reference code                         | Applicable on                            |
| 3(a)                                   | NITRIC ACID 69% EXTRA PURE ; NITRIC ACID |
| 3(b)                                   | NITRIC ACID 69% EXTRA PURE ; NITRIC ACID |

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

# NITRIC ACID 69% EXTRA PURE

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### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

#### Switzerland

Storage class (LK) : LK 5 - Oxidizing materials

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|     |                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE | Acute Toxicity Estimate                                                                         |
| BCF | Bioconcentration factor                                                                         |
| BLV | Biological limit value                                                                          |
| BOD | Biochemical oxygen demand (BOD)                                                                 |
| COD | Chemical oxygen demand (COD)                                                                    |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| DMEL                        | Derived Minimal Effect level                                                 |
| DNEL                        | Derived-No Effect Level                                                      |
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| EN                          | European Standard                                                            |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstract Service number                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties                                              |

| Full text of H- and EUH-statements: |                                                        |
|-------------------------------------|--------------------------------------------------------|
| H272                                | May intensify fire; oxidiser.                          |
| H314                                | Causes severe skin burns and eye damage.               |
| Ox. Liq. 2                          | Oxidising Liquids, Category 2                          |
| Ox. Liq. 3                          | Oxidising Liquids, Category 3                          |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.