

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name - Trade name : Nitric acid 69 %  
 EC index no : 007-004-00-1  
 EC no : 231-714-2  
 CAS No. : 7697-37-2

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

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

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

QUARON N.V.  
 Noordweg 3  
 3336 LH Zwijndrecht - Nederland  
 T +31 (0)78 6250 000 - F +31 (0)78 6250 050  
[msds@quaron.com](mailto:msds@quaron.com) - [www.quaron.com](http://www.quaron.com)

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
NETHERLANDS	National Poisons Information Centre National Institute for Public Health and the Environment, NB this service is only available to health professionals	P.O. Box 1 3720 BA Bilthoven	+31 30 274 88 88

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Ox. Liq. 3 H272  
 Met. Corr. 1 H290  
 Skin Corr. 1A H314

Full text of H-phrases: see section 16.

#### 2.1.2. Classification according to Directive 67/548/EEC or 1999/45/EC

O; R8  
 C; R35

Full text of R-phrases: see section 16.

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

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

H-Phrases

: H272 - May intensify fire; oxidizer  
 H290 - May be corrosive to metals  
 H314 - Causes severe skin burns and eye damage

P-phrases

: P260 - Do not breathe mist, fume, vapours.  
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
 P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting.  
 P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a POISON CENTER or doctor/physician

EUH phrases

: EUH071 - Corrosive to the respiratory tract

### 2.2.2. Labelling according to Directive 67/548/EEC or 1999/45/EC

Symbol(s)



C - Corrosive

R Phrase(s)

: R35 - Causes severe burns

S Phrase(s)

: S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

### 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Nitric acid	(CAS No.) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	~ 68	O; R8 C; R35
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitric acid	(CAS No.) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	~ 68	Ox. Liq. 3, H272 Skin Corr. 1A, H314 Met. Corr. 1, H290

Full text of R-, H- and EUH-phrases: see section 16.

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First aid measures : Call a doctor or summon medical assistance urgently.

After inhalation : If not breathing, give artificial respiration. Remove the victim into fresh air. Allow the affected person to rest. Take to hospital. Risk of pulmonary oedema.

After skin contact : Remove contaminated clothing and shoes. Flush with plenty of water. Seek medical attention if ill effect or irritation develops.

After eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.

After swallowing : Give nothing to drink. DO NOT INDUCE VOMITING. Take to hospital.

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

Inhalation : Irritating to respiratory system. Sore throat. .. Cough. .. Shortness of breath. .. This material or its emissions may aggravate pulmonary/bronchial disease and/or cause breathing difficulty.

Skin contact : Redness, pain. Causes severe burns.

Eye contact : Severe eye irritant. Redness, pain. .. Blurred vision. May cause destruction of eye tissue.

Ingestion : Severe ingestion hazard. Abdominal pain, nausea. Burning sensation.

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

No additional information available

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media can be used. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

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

Specific hazards : On exposure to high temperature, may decompose, releasing toxic gases.

Hazardous reactions : Reacts violently with : Reducing agents (combustibles). .. Bases. .. Halogenated compounds.

### 5.3. Advice for firefighters

No additional information available





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according to Regulation (EC) No. 1907/2006

#### 6. Accidental release measures

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

###### 6.1.1. For non-emergency personnel

Protective equipment : Keep public away from danger area. Equip cleanup crew with proper protection.

###### 6.1.2. For emergency responders

No additional information available

##### 6.2. Environmental precautions

Prevent entry to sewers, ground and public waters. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : If a major spill occurs, all personnel should be immediately evacuated and the area ventilated. Stop the spillage, if possible without risk for the workforce. Impound large land spill.

##### 6.4. Reference to other sections

No additional information available

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

No additional information available

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

No additional information available

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

No additional information available

#### 8. Exposure controls/personal protection

##### 8.1. Control parameters

No additional information available

##### 8.2. Exposure controls

- Eye protection : Chemical goggles or face shield with safety glasses.
- Skin protection : According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn.
- Respiratory protection : Approved dust or mist respirator should be used if airborne particulate is generated when handling this material.

#### 9. Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless to light yellow.
Odour	: Pungent.
pH value	: < 1 concentrated solution
Melting point	: -41 °C
Boiling point	: 121 °C
Flash point	: Not applicable.
Vapour pressure	: 0,77 kPa
Density	: 1,41 g/cm <sup>3</sup>
Water solubility	: Soluble
Log P octanol / water at 20°C	: -2,3
Decomposition point	: 83 °C

##### 9.2. Other information

No additional information available

#### 10. Stability and reactivity

##### 10.1. Reactivity

Reacts violently with : Reducing agents (combustibles). .. Bases. .. Halogenated compounds.

##### 10.2. Chemical stability

Stable under normal conditions.





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#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### 11. Toxicological information

#### 11.1. Information on toxicological effects

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

Serious eye damage/irritation : Causes serious eye damage.

Nitric acid 69 % (7697-37-2)	
LC50 inhalation rat (ppm)	2500 ppm/4h

Nitric acid (7697-37-2)	
Rat inhalation LC50	171

### 12. Ecological information

#### 12.1. Toxicity

- Effects on the environment : Acidic substance leading to a lower pH. However, pH will increase rather quickly because of dilution until an ecological neutral product is obtained. Some constituents may have a harmful effect on the aquatic environment.

- on water : SL1538 - No data available.

Nitric acid 69 % (7697-37-2)	
LC50-96 Hour - fish	4400 mg/l mg/ l
48 Hour-EC50 - Daphnia magna	490 mg/l

Nitric acid (7697-37-2)	
LC50-96 Hour - fish	72 mg/l

#### 12.2. Persistence and degradability

Nitric acid 69 % (7697-37-2)	
Persistence and degradability	Biodegradable.

#### 12.3. Bioaccumulative potential

Nitric acid 69 % (7697-37-2)	
Log P octanol / water at 20°C	-2,3
Bioaccumulative Potential	No.

#### 12.4. Mobility in soil

Nitric acid 69 % (7697-37-2)	
- on soil	Small spills : Clean up any spills as soon as possible, using an absorbent material to collect it. Large spills : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use suitable disposal containers. Neutralize with : Lime. Flush with plenty of water. May release toxic materials. : Nitrogen oxides.

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### 13. Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### 14. Transport information

#### 14.1. UN number

UN-No. : 2031

#### 14.2. UN proper shipping name

Proper Shipping Name : NITRIC ACID

Transport document description (ADR) : UN 2031 NITRIC ACID, 8 (5.1), II, (E)

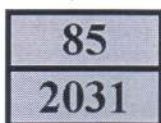
### 14.3. Transport hazard class(es)

#### 14.3.1. Overland transport

Class (ADR) : 8 - Corrosive substances  
 Hazard identification number (Kemler No.) : 85  
 Classification code : CO1  
 Labelling ADR : 8 - Corrosive substances  
 5.1 - Oxidizer



Orange plates :



Code tunnelrestriction (ADR) : E  
 Limited quantities (ADR) : LQ22  
 Excepted quantities (ADR) : E2

#### 14.3.2. Transport by sea

No additional information available

#### 14.3.3. Air transport

No additional information available

### 14.4. Packing group

Packing Group : II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No additional information available

## 15. Regulatory information

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

#### 15.1.1. EU-Regulations

No additional information available

#### 15.1.2. National regulations

Water hazard class : 10 - Low toxicity to aquatic organisms, may cause long term adverse effects.  
 Remediation Efforts : A - Basically, no discharge, if so, apply best available techniques

### 15.2. Chemical safety assessment

No additional information available

## 16. Other information

Full text of R-, H- and EUH-phrases:

Eye Dam. 1	Serious Eye Damage/Irritation Category 1
Met. Corr. 1	Substance or mixture corrosive to metals Category 1
Ox. Liq. 3	Oxidising liquid Category 3
Skin Corr. 1A	skin corrosion/irritation Category 1A
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
R35	Causes severe burns
R8	Contact with combustible material may cause fire.



**Nitric acid 69 %**  
**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006

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*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.*