

## Safety Data sheet

According to Directive 1907/2006

### 0136 NITRIC ACID 60% w/w

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Creation Date: 01/12/2010 Revision date: 31/05/2017

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

### Identification of the product

Catalogue No: 0136 Product name: NITRIC ACID 60% w/w Use of the substance: Analysis and chemical-pharmaceutical production  
REACH registration Nr.: 01-2119487297-23-0000

### Company/undertaking identification

QUALITY CHEMICALS, SL - C/Fornal 35. Pol. Ind. Can Comelles Sud 08292 ESPARREGUERA ESPAÑA Tel. 937709730 Fax. 937709337 e-mail: dtecnica@qualitychemicals.com

### Emergency telephone No.

Quality Chemicals S.L. Tel. +34 937709730 Only in business hours. Instituto Nacional de Toxicología \*Madrid\* Tel:915620420  
Chemtrec: 800-424-9300

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## 2. Hazards identification

Labelling in accordance with directive 1907/2006



### R-phrases

8 Contact with combustible material may cause fire.  
35 Causes severe burns.

### S-phrases

23.2 Do not breath vapour.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36 Wear suitable protective clothing.  
45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

Labelling in accordance with directive 1272/2008



**H-phrases**

314 Causes severe skin burns and eye damage.  
290 May be corrosive to metals.

**P-phrases**

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
305+351 If in eyes: Rinse cautiously with water for several minutes.  
338 Remove contact lenses, if present and easy to do. Continue rinsing.  
260 Do not breathe dust/fume/gas/mist/vapours/spray.  
280 Wear protective gloves/protective clothing/eye protection/face protection.

Signal word : DANGER

CORROSIVE

R-phrases:

Contact with combustible material may cause fire.  
Causes severe burns.

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### 3.Composition/information on ingredients

**Short hazard description**

NITRIC ACID 100% w/w (CAS-Nr. 7697-37-2, EINECS-Nr. 231-71-42) 58-63%

R-Phrases: 8; 35

OXIDICING; CORROSIVE

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 7697-37-2

Molecular Weight: 63,01

Chemical formula:  $\text{HNO}_3$

EC-Index-No.: 007-004-00-1

EC-No.: 231-714-2

R-phrases 8; 35

For more information about the R-Phrases text you can consult the paragraph 16

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### 4.First aid measures

**After inhalation:**

Fresh air

Call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Extract the substance by means of cotton impregnated with polietilenglicol 400

Get rid of the contaminated clothes

**After eye contact:**

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

**After swallowing:**

Drink several liters of water and avoid vomit (perforation risk)

Call the doctor

Do not carry out neutralization measures

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### 5.Fire-fighting measures

**Suitable extinguishing media:**

Adapt the materials of the surroundings

**Special risks:**

Fireproof

Ambient fire may liberate hazardous vapours  
The following may develop in event of fire nitrogen oxides

**Special protective equipment for fire fighting:**

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Wear suitable protective clothing

**Other information:**

Cool the containers spraying water

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

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## 6. Accidental release measures

**Person-related precautionary measures:**

Avoid contact with the substance

Not to inhale steam/aerosols

Ventilation in closed spaces

**Procedures for cleaning/absorption:**

To gather with absorbents

To come to the elimination of the remainders

Rinse.

**Environmental protection measures:**

Do not send it to the sewerage system

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## 7. Handling and storage

Handling: Without other exigencies

**Storage:**

Well closed

Storage temperature: ambient

Protected from direct sunlight

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## 8. Exposure controls/personal protection

Exposure limit control

NITRIC ACID 100% w/w

TLV-TWA: 5 mg/m<sup>3</sup>; TLV-STEL: 10 mg/m<sup>3</sup>

**Personal protective equipment:**

**Respiratory protection:**

Necessary when steam/aerosols are generated

**Hand protection:**

Protection gloves:

Natural latex

Viton

**Eye protection:**

Needed

**Skin and body protection:**

Protective clothing against acid

**Other protective equipment:**

Change immediately contaminated clothes

Recommendable preventive protection of the skin  
Wash hands and face when the work is finished  
Fulfill the commitments under local environmental protection legislation

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## 9. Physical and chemical properties

Physical state: Liquid  
Colour: Colourless  
Odour: Biting  
pH value: <1  
Melting point: -47°C  
Boiling point: 121°C  
Density (g/cm<sup>3</sup>): 1,380  
Solubility: Soluble (water)  
log P(ow): -2,3 (anhydrous)

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## 10. Stability and reactivity

**Substances to be avoided:**  
Organic and inorganic reducing substances.  
**Hazardous decomposition products:**  
Not available.  
**Further information:**  
To avoid heating.  
Incompatible with metals.

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## 11. Toxicological information

### Acute toxicity:

LDLo (oral, human): 430 mg/kg  
**After eye contact:**  
Burns  
**After skin contact:**  
Serious skin burns  
**After inhalation:**  
Coughing  
Dyspnoea  
Oedemas in the respiratory tract  
Burns of mucous membranes  
**After long contact:**  
Metahemoglobinemia  
**After swallowing:**  
Death  
Bloody vomiting  
Strong pain  
Tissue damage (mouth, oesophagus, gastrointestinal tract)  
**Further toxicological information:**  
The precautions adapted for chemical agents must be observed

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## 12. Ecological information

Fishes: *Gambusia affinis*: LC50: 72 mg/l/96h  
Daphnia: LOEC: 107 mg/l  
Log P(ow): -2,3  
Bioaccumulation: No bioaccumulation is to be expected (log Pow < 1)

**Other harmful effects:**

Do not allow to enter waters, waste water, or soil  
Toxic effect on fish and plankton  
Harmful effect due to pH shift  
Forms corrosive mixtures with water even if diluted  
Does not cause biological oxygen deficit  
Hazard for drinking water supplies

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### 13. Disposal considerations

**Product:**

Dispose as regulated in the community countries by local regulations.  
Please contact with the suitable authority in each case (Public Administration or company specialized in

**Packaging:**

Product packaging disposal must be disposed of in compliance with the respective local regulations.  
For contaminated packaging the same measures must be adopted as for the contaminated product.  
Not contaminated packaging must be disposed of as domestic residues or recycled material.  
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

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### 14. Transport information

**Overland transport ADR/RID**

UN: 2031  
Class: 8  
Packaging group: II  
Correct technical name: NITRIC ACID

**Sea transport IMDG**

UN: 2031  
Class: 8/II  
Packaging group: II  
Correct technical name: NITRIC ACID

**Air transport ICAO-IATA-DGR**

UN: 2031  
Class: 8  
Packaging group: II  
Correct technical name: NITRIC ACID  
CAO: 813  
PAX: P

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### 15. Regulatory information

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### 16. Other information

Full text of R phrases mentioned in sections 2 and 3  
8 Contact with combustible material may cause fire.  
35 Causes severe burns.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.