

## Safety Data sheet

According to Directive 1907/2006

### 0860 NITRIC ACID 55% 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: 0860 Product name: NITRIC ACID 55% 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

1/2 Keep locked up and out of the reach of children.  
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

Aqueous solution

**Short hazard description**

NITRIC ACID 100% w/w (CAS-Nr. 7697-37-2, EINECS-Nr. 231-71-42) 53-57%

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: HNO<sub>3</sub>

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

If sickness persists, call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

Extract the substance by means of cotton impregnated with polietilenglicol 400

Call the physician

**After eye contact:**

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

Call the ophthalmologist

**After swallowing:**

Drink lots of water

Avoid vomiting (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

In case of fire, nitrous gases can be formed

In contact with metals, gaseous hydrogen could form (explosion risk)

**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.

**Other information:**

Precipitate emergent steam with water

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

Cool the containers spraying water

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## 6. Accidental release measures

**Person-related precautionary measures:**

Not to inhale steam/aerosols

Avoid contact with the substance

Ventilation in closed spaces

**Procedures for cleaning/absorption:**

To gather with absorbents

To come to the elimination of the remainders

Rinse.

**Other information:**

Neutralize with diluted NaOH

**Environmental protection measures:**

Do not allow that the product gets to the environment

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## 7. Handling and storage

Handling: Work under display cabinet extractor

**Storage:**

Well closed

In well-ventilated place

Storage temperature: ambient

Do not use metallic containers

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:

Nitrile rubber

**Eye protection:**

Needed

**Skin and body protection:**

Suitable protective clothing

**Other protective equipment:**

Change immediately contaminated clothes

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: Characteristic

pH value: < 1

Density (g/cm<sup>3</sup>): 1,340

Solubility: Miscible in water

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## 10. Stability and reactivity

**Substances to be avoided:**

Acids.

Anhydrides.

Hydrogen peroxide.

Halogens.

Alkaline-earth metals.

Alkaline metals.

Hydride.

Aldehydes.

Amines.

Ammonia.

Alkaline salts.

Metal and metal alloys.

Metal oxides.

Nitrogen organic compounds.

Acetylides.

Ketones.

Alcoholates.

Combustible substances.

Phosphorus.

Nonmetallic halides.

Nonmetallic oxides.

**Hazardous decomposition products:**

Nitrous gases.

Hydrogen in contact with metals

**Further information:**

Strong oxidizing agent.

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## 11. Toxicological information

**After inhalation:**

Coughing

Dyspnoea  
Oedemas in the respiratory tract  
Burns of mucous membranes  
Very corrosive substance

**After swallowing:**

Tissue damage (mouth, oesophagus, gastrointestinal tract)  
Strong pain  
Risk of perforation in stomach  
Risk of perforation in the oesophagus  
Vomiting  
Death

**Further toxicological information:**

Other dangerous characteristics are not discarded  
Take the usual precautions for handling chemical products

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## 12. Ecological information

Fishes: *Gambusia Affinis* LC50: 72 mg/l/96h  
Daphnia: *Daphnia Magna* ECL0: 107 mg/l

**Other harmful effects:**

Harmful effect due to pH shift  
Hazard for drinking water supplies  
Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities  
May contribute to the eutrophication of 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.