

## Safety Data sheet

According to Directive 1907/2006

### 0122 FORMIC ACID 85% 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: 0122 Product name: FORMIC ACID 85% w/w Use of the substance: Analysis and chemical-pharmaceutical production  
REACH registration Nr.: 01-2119491174-37-0000

### 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

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.

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.

### 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.

Signal word : DANGER

CORROSIVE

R-phrases:

Causes severe burns.

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### 3. Composition/information on ingredients

Aqueous solution

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

CAS-No.: 64-18-6

Molecular Weight: 46,03

Chemical formula: HCOOH

EC-Index-No.: 607-001-01-8

EC-No.: 200-579-1

R-phrases 35

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

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### 4. First aid measures

#### Gloves necessity

Help the injured person wearing suitable protective equipment.

#### 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

#### 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

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### 5. Fire-fighting measures

#### Suitable extinguishing media:

Water

Foam

Dust

#### Special risks:

Flammable

Steam heavier than air

It forms explosive mixtures with air

In case of fire, possible formation of toxic vapors

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

#### Other information:

Precipitate emergent steam with water

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

## 6. Accidental release measures

**Person-related precautionary measures:**

Not to inhale steam/aerosols

**Procedures for cleaning/absorption:**

Take up with liquid-absorbent and neutralizing material

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:**

Protect from light

Contents may be under pressure

**Storage:**

Well closed

In well-ventilated place

Dry place.

Protected from light.

Moved away of heat sources

Limited time of storage

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## 8. Exposure controls/personal protection

**Exposure limit control**

TLV-TWA: 9 mg/m<sup>3</sup>; TVL-STEL: 18 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: Spicy

Density (g/cm<sup>3</sup>): 1,190

Solubility: Soluble in water  
log P(ow): -1.55

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## 10. Stability and reactivity

### Substances to be avoided:

Phosphorus oxide.  
Hydrogen peroxide.  
Aluminium.  
Nitrogen organic compounds.  
Concentrated sulfuric acid.  
Nonmetallic oxides.  
Metal catalysts.  
Strong oxidizing agents.  
Alkaline metals.

### Hazardous decomposition products:

Hydrogen.  
Carbon monoxide.

### Further information:

Light-sensitive.  
Heat-sensitive.  
Forms explosive mixtures with air on intense heating.

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## 11. Toxicological information

### Acute toxicity:

LD50 (oral, rat): 1100 mg/kg

#### After eye contact:

Sight disorders  
Burns  
Conjunctivitis

#### After skin contact:

Burns

#### After inhalation:

Oedemas in the respiratory tract  
Irritation of: respiratory tract

#### After swallowing:

Kidney problems  
Burns in gastrointestinal tract  
Acidosis  
Irritations of mucous membranes in the mouth  
Abdominal cramps

#### Further toxicological information:

Possible mutagenic effect in humans.  
The carcinogenic potential requires further clarification  
Take the usual precautions for handling chemical products

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## 12. Ecological information

Fishes: Leuciscus Idus CE0: 1000 mg/l

Bacteria: Photobacterium phosphoreum CE50: 7.96 mg/l

Log P(ow): -1.55

BOD5 0.27 g/g

TOD 0.35 g/g  
Biodegradability: High  
Bioaccumulation: Bioaccumulation is not expected  
**Other harmful effects:**  
Do not allow to enter waters, waste water, or soil

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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: 1779  
Class: 8  
Packaging group: II  
Correct technical name: FORMIC ACID

#### Sea transport IMDG

UN: 1779  
Class: 8/II  
Packaging group: II  
Correct technical name: FORMIC ACID

#### Air transport ICAO-IATA-DGR

UN: 1779  
Class: 8  
Packaging group: II  
Correct technical name: FORMIC ACID  
CAO: 855  
PAX: 851

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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  
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.