

Safety Data sheet

According to Directive 1907/2006

0123 FORMIC ACID 90% w/w

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

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

Identification of the product

Catalogue No: 0123 Product name: FORMIC ACID 90% 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

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.

3.Composition/information on ingredients

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

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)

Undress immediately 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

Do not carry out neutralization measures

5.Fire-fighting measures

Suitable extinguishing media:

Water

Foam

Dust

Special risks:

Flammable

Keep away from ignition sources

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)

6.Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Environmental protection measures:

Do not allow that the product gets to the environment

7. Handling and storage

Handling: Protect from light

Storage:

Well closed

In well-ventilated place

Dry place.

Protected from light.

Moved away of sources of ignition and heat

Limited time of storage

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 5 ppm; TLV-STEL: 10 ppm

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Needed

Eye protection:

Needed

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

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Spicy

Ignition temperature: 50°C

Explosion limits: 14-33 (Vol.%)

Vapour pressure: 43 hPa (20°C)

Density (g/cm³): 1,200

Solubility: Miscible with water.

log P(ow): -1,55

10. Stability and reactivity

Substances to be avoided:

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

Hazardous decomposition products:

Carbon monoxide.
Hydrogen.

Further information:

Heat-sensitive.
Light-sensitive.
Explosible with air in a vaporous/gaseous state.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 1100 mg/kg

After eye contact:

Sight disorders
Conjunctivitis
Irritation

After skin contact:

Burns

After inhalation:

Damage of respiratory tract
Very corrosive substance
Oedemas in the respiratory tract

After swallowing:

Burns in oesophagus
Irritations of mucous membranes in the mouth
Acidosis

Further toxicological information:

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Leuciscus idus*: CE0: 1000 mg/l.

Daphnia: CE50: 120 mg/l.

Algae: EC50: 100 mg/l.

Bacteria: *Photobacterium phosphoreum*: CE50: 7,96 mg/l

Log P(ow): -1,55

BOD5 0,27 g/g

Biodegradability: High

Bioaccumulation: No bioaccumulation is to be expected.

Other harmful effects:

No ecological problems are to be expected when the product is handled and used with due care and attention.

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

14. Transport information

Overland transport ADR/RID

UN: 1779
Class: 8 (3)
Packaging group: II
Correct technical name: FORMIC ACID

Sea transport IMDG

UN: 1779
Class: 8/II (3)
Packaging group: II
Correct technical name: FORMIC ACID

Air transport ICAO-IATA-DGR

UN: 1779
Class: 8 (3)
Packaging group: II
Correct technical name: FORMIC ACID
CAO: 855
PAX: 851

15. Regulatory information

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.