

Safety Data sheet

According to Directive 1907/2006

2317 ACETIC ACID 40% 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: 2317 Product name: ACETIC ACID 40% w/w Use of the substance: Analysis and chemical-pharmaceutical production
REACH registration Nr.: 01-2119475328-30-0000

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

34 Causes 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 burns.

3. Composition/information on ingredients

Aqueous solution

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

CAS-No.: 64-19-7

Molecular Weight: 60,05

Chemical formula: $C_2H_4O_2$

EC-Index-No.: 607-002-01-3

EC-No.: 200-580-7

R-phrases 34

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

4. First aid measures

After inhalation:

Fresh air

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

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)

Do not carry out neutralization measures

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Water

Dust

Foam

Carbon dioxide

Special risks:

Combustible

Steam heavier than air

Possible formation of explosive mixtures with air

Ambient fire may liberate hazardous vapours

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

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.

Environmental protection measures:

Do not allow to enter sewerage system
Risk of explosion

7. Handling and storage

Handling:

Avoid electrostatic load
Keep away from sources of ignition

Storage:

Well closed
In well-ventilated place
Moved away of sources of ignition and heat

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 25 mg/m³ (pure substance); TLV-STEL: 37 mg/m³ (pure substance)

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:
Butyl rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

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

Quality Chemicals, S.L.

Inscrita en el Registro Mercantil de Barcelona,
tomo 30166, folio 195, Sección General, hoja 169845.
Identificación fiscal ES B61403242

Fornal, 35 - Pol. Ind. Can ComellesSud
Apdo. de Correos, 184
ES08292 Esparreguera (Barcelona)
Tel. (34) 93 770 97 30 - Fax (34) 93 770 93 37
customer-service@qualitychemicals.com - www.qualitychemicals.com

Physical state: Liquid
Colour: Colourless
Odour: Biting
Dynamic viscosity: 1.22 mPa*s (pure substance)
Ignition temperature: 485°C (pure substance)
Explosion limits: Low: 4% vol; High: 19.9% vol. (pure substance)
Vapour pressure: 15.4 hPa (pure substance)
Density (g/cm³): 1,050
Solubility: Soluble in water
log P(ow): -0.17

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.
Hydrogen peroxide.
Nitrites.
Concentrated sulfuric acid.
Metals.
Nonmetallic halides.
Alcohols.
Aldehydes.
Halogen-halogen compounds.
Alkaline hydroxides.
Nitrating acid.
Acetic anhydride.

Hazardous decomposition products:

Fumes of acetic acid.

Further information:

Incompatible with metals.
Explosible with air in a vaporous/gaseous state.
Incompatible with various metals and metal alloys.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 3310 mg/kg (pure substance); LD50 (dermal, rabbit): 1060 (pure substance)

After eye contact:

Sight disorders

Burns

Risk of blindness

After skin contact:

Burns

After inhalation:

Irritation of: respiratory tract

Very corrosive substance

Oedemas in the respiratory tract

After swallowing:

Burns in oesophagus

Burns in gastrointestinal tract

Spasms

Vomiting

Dyspnoea

Risk of perforation in stomach

Risk of perforation in the oesophagus

Risk of aspiration upon vomiting
Acidosis
Shock
Kidney problems

Further toxicological information:

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

12. Ecological information

Fishes: *Leuciscus idus* EC50: 410 mg/l; *L. macrochirus* EC50: 75 mg/l
Daphnia: *Daphnia magna* EC50: 47 mg/l
Bacteria: *Photobacterium phosphoreum* EC50: 11 mg/l
Log P(ow): -0.17
BOD5 0.88 g/g
Biodegradability: High
Bioaccumulation: Bioaccumulation is not expected

Other harmful effects:

Highly toxic for aquatic organisms
Harmful effect due to pH shift
Acute ecotoxicity in the dumping area
Do not allow to enter waters, waste water, or soil

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: 2790
Class: 8
Packaging group: II
Correct technical name: ACETIC ACID SOLUTION

Sea transport IMDG

UN: 2790
Class: 8/II
Packaging group: II
Correct technical name: ACETIC ACID SOLUTION

Air transport ICAO-IATA-DGR

UN: 2790

Class: 8
Packaging group: II
Correct technical name: ACETIC ACID SOLUTION
CAO: 855
PAX: 851

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

34 Causes 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.