

Safety Data sheet

According to Directive 1907/2006

0104 ACETONE

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: 0104 Product name: ACETONE Use of the substance: Analysis and chemical-pharmaceutical production REACH registration Nr.: 01-2119471330-49-XXXX

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

- 11 Highly flammable
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

S-phrases

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Labelling in accordance with directive 1272/2008

**H-phrases**

225 Highly flammable liquid and vapour.
319 Causes serious eye irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.
336 May cause drowsiness or dizziness.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.
309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : DANGER

HIGHLY FLAMMABLE; IRRITANT

R-phrases:

Highly flammable
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

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

CAS-No.: 67-64-1

Molecular Weight: 58,08

Chemical formula: CH₃COCH₃

EC-Index-No.: 606-001-00-8

EC-No.: 200-662-2

R-phrases 11; 36; 66; 67

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

After eye contact:

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

After swallowing:

Caution if victim vomits
Risk of aspiration
Keep airways free
Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Dust
Foam
Carbon dioxide

Special risks:

Combustible
Steam heavier than air
Possible formation of explosive mixtures with air
Backfiring
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:

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

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 allow to enter sewerage system
Risk of explosion

7. Handling and storage

Handling:

Keep away from sources of ignition
Avoid electrostatic load
Work under display cabinet extractor
Do not inhale the substance
Avoid generation of steams

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: 500 ppm (1210 mg/m³)

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:

Butyl rubber

Natural latex

Eye protection:

Needed

Skin and body protection:

Protective clothing against flames

Antistatic clothes

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Work under extractor

Do not inhale the substance

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Fruity

pH value: 5-6 (395 g/l H₂O)

Dynamic viscosity: 0,32 mPa·s

Melting point: -95°C

Boiling point: 56,5°C

Ignition temperature: 465°C

Flash point: -20°C

Explosion limits: Low: 2,6 Vol% Upper: 12,8 Vol%

Vapour pressure: 233 hPa

Density (g/cm³): 0,790

Solubility: Soluble (water)

log P(ow): -0,24

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.

Alkaline hydroxides.

Chromosulfuric acid.

Hydrogen peroxide.

Chloroform.

Fluorine.

Nitric acid.

Chromyl chloride.

Alkaline metals.

Halogen-halogen compounds.

Nitrating acid.

Non-metal oxyhalides.

Bromine.

Ethanolamina.

Nitrosyl.

Reducing agents.

Hazardous decomposition products:

Peroxides.

Further information:

Light-sensitive.

Sensitive to air.

Incompatible with rubber and various plastics.

To avoid heating.

Explosible with air in a vaporous/gaseous state.

11.Toxicological information

Acute toxicity:

LC50 (inhalation, rat): 76 mg/l/4h. LD50 (oral, rat): 5800 mg/kg.

After eye contact:

Córnea disorder

Irritation

After skin contact:

Drying-out effect resulting in rough and chapped skin

After inhalation:

Irritations of the mucous membranes

Drowsiness

Dizziness

Absorption

After long contact:

Due to absorption:

Headache

Narcosis

Dizziness

Nausea

Vomiting

Coma

Salivation

After swallowing:

Gastrointestinal disorders

Absorption

Further toxicological information:

Non carcinogenic in animal experiments

The precautions adapted for chemical agents must be observed

12.Ecological information

Fishes: *Leuciscus idus*: EC50: 7505 mg/l. *Salmo gairdneri*: EC50: 2000 mg/l.

Daphnia: *Daphnia magna*: EC50: 6100 mg/l/48h.

Algae: *Scenedesmus quadricauda*: IC5: 7500 mg/l/8d.

Bacteria: *Pseudomonas putida*: EC5: 1700 mg/l/16h.

Log P(ow): -0,24

BOD5 1,85 g/g

COD 2,07 g/g

TOD 2,20 g/g

Biodegradability: High

Bioaccumulation: No bioaccumulation is to be expected (log P < 1)

Other harmful effects:

Do not allow to enter waters, waste water, or soil

13.Disposal considerations

Product:

Dispose as regulated in the communitary 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: 1090
Class: 3
Packaging group: II
Correct technical name: ACETONE

Sea transport IMDG

UN: 1090
Class: 3/II
Packaging group: II
Correct technical name: ACETONE

Air transport ICAO-IATA-DGR

UN: 1090
Class: 3
Packaging group: II
Correct technical name: ACETONE
CAO: 364
PAX: 353

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

- 11 Highly flammable
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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.