

Safety Data sheet

According to Directive 1907/2006

2316 CHLOROSULFONIC ACID

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: 2316 Product name: CHLOROSULFONIC ACID Use of the substance: Chemical for syntesis REACH registration Nr.: 01-2119454163-45-0003

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

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

- 14 Reacts violently with water
- 35 Causes severe burns.
- 37 Irritating to respiratory system.

S-phrases

- 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 poss

Labelling in accordance with directive 1272/2008



H-phrases

EUH014 Reacts violently with water.
314 Causes severe skin burns and eye damage.
335 May cause respiratory irritation.

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:

Reacts violently with water
Causes severe burns.
Irritating to respiratory system.

3.Composition/information on ingredients

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

CAS-No.: 7790-94-5

Molecular Weight: 116,52

Chemical formula: ClSO_3H

EC-Index-No.: 016-017-00-1

EC-No.: 232-234-6

R-phrases 14; 35; 37

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

4.First aid measures

After inhalation:

If necessary, artificial respiration

Call the physician

After skin contact:

Get rid of the contaminated clothes

Extract the substance by means of cotton impregnated with polietilenglicol 400

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 several litters of water and avoid vomit (perforation risk)

Call the doctor

Do not carry out neutralization measures

5.Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Water

Foam

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

The following may develop in event of fire: hydrochloric acid

In case of fire, SO_x gas can be formed

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 penetration 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.

Other information:

Neutralize with diluted NaOH, lime, sand of lime or sodium carbonate

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling:

keep workplace dry

Do not allow product to come into contact with water

Storage:

Well closed

Dry place.

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:

Butyl rubber

Viton

Eye protection:

Needed

Skin and body protection:

Protective clothing against acid

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 to yellowish
Odour: Biting
pH value: <1
Melting point: -80°C
Boiling point: 151°C
Vapour pressure: 33,1 hPa (50°C) 3,08 hPa (20°C)
Density (g/cm³): 1,750
Solubility: Explosion decomposition (water)

10. Stability and reactivity

Substances to be avoided:

Organic and inorganic reducing substances.
Acids.
Alkaline hydroxides.
Alcohols.
Ketonas.
Metals in powder form.
Water.

Hazardous decomposition products:

Not available.

Further information:

To avoid heating.
Senstive to moisture.
Can descompose violently in contact with water.

11. Toxicological information

Acute toxicity:

LC50 (inhalation, rat): 4779 mg/m³/4h. LD50 (oral, rat): 50 mg/kg.

After eye contact:

Burns
Risk of blindness

After skin contact:

Serious skin burns

After inhalation:

Irritations of the mucous membranes
Dyspnoea
Pulmonary oedema
Ataxia

Irritation of: respiratory tract

Irritations of: lungs

After swallowing:

Burns in mouth
Burns in throat
Burns in oesophagus
Burns in gastrointestinal tract
Risk of perforation in stomach
Risk of perforation in the oesophagus

Further toxicological information:

The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: *Gambusia affinis*: LC50: 282 mg/l/96h.

Daphnia: *Daphnia magna*: EC50: 29 mg/l/24h.

Other harmful effects:

Harmful effect due to pH shift

Product reacts with water

Toxic effect on fish and algae

Does not cause biological oxygen deficit

Caustic even in diluted form

Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities

Neutralization possible in waste water treatment plants

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: 1754

Class: 8

Packaging group: I

Correct technical name: CHLOROSULPHONIC ACID

Sea transport IMDG

UN: 1754

Class: 8/I

Packaging group: I

Correct technical name: CHLOROSULPHONIC ACID

Air transport ICAO-IATA-DGR

UN: 1754

Class: 8

Packaging group: I

Correct technical name: CHLOROSULPHONIC ACID

CAO: P

PAX: P

15. Regulatory information

16. Other information

Quality Chemicals, S.L.

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Full text of R phrases mentioned in sections 2 and 3

14 Reacts violently with water

35 Causes severe burns.

37 Irritating to respiratory system.

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.