

according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 04.07.2018

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- · Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration
- · Article number: AQ0023
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Scharlab, S.L.
 C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
 Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
 email: scharlab@scharlab.com
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Further information obtainable from: technical department *1.4 Emergency telephone number:* Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.



Eye Irrit. 2 H319 Causes serious eye irritation.

(Contd. on page 2)



Page 2/10 Safety data sheet according to 1907/2006/EC, Article 31 (REACH) Revision: 04.07.2018 Printing date 31.07.2018 Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration (Contd. of page 1) · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger Hazard-determining components of labelling: methanol Hazard statements H225 Highly flammable liquid and vapour. H331 Toxic if inhaled. H319 Causes serious eye irritation. H370 Causes damage to organs. Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition P210 sources. No smoking. P241 Use explosion-proof electrical/ventilating/lighting equipment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. SECTION 3: Composition/information on ingredients 3.2 Chemical characterisation: Mixtures Description: Solvent mixture with additives · Dangerous components: bis(hydroxyethyl)ammonium chloride CAS: 14426-21-2 50-100% EINECS: 238-396-4 Eye Irrit. 2, H319 CAS: 67-56-1 methanol 25-50%

EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-XXXX Tox. 3, H311; Acute Tox. 3, H331; \$\$ STOT SE 1, H370

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)



according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 2)

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available. • 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available. • 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.



according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 3)

- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles. • 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
 67-56-1 methanol
- WEL Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)



according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 4)

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
 Appearance:
- Form:
- Colour:
- · Odour:
- · Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: Under Initial boiling point and boiling range: 63 °C
- · Flash point:
- · Flammability (solid, gas):
- · Ignition temperature:
- · Decomposition temperature:
- · Auto-ignition temperature:
- · Explosive properties:
- Explosion limits: Lower: Upper:
- Vapour pressure at 20 °C:
- · Density at 20 °C:
- · Relative density
- · Vapour density
- · Evaporation rate
- Solubility in / Miscibility with water:
- · Partition coefficient: n-octanol/water:
- Viscosity: Dynamic: Kinematic:
- Solvent content: Organic solvents:
- Solids content: • 9.2 Other information

Fluid Colourless Characteristic Not determined.

Not determined.

Undetermined. a: 63 °C

14 °C

Not applicable.

455 °C

Not determined.

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

5.5 Vol % 44 Vol %

128 hPa

1.06 g/cm³ Not determined. Not determined. Not determined.

Not miscible or difficult to mix.

Not determined.

Not determined. Not determined.

47.0 %

53.0 % No further relevant information available.

(Contd. on page 6)



according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 5)

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- Toxic if inhaled.
- LD/LC50 values relevant for classification:
- 67-56-1 methanol
- Oral LD50 5,628 mg/kg (rat)
- Dermal LD50 15,800 mg/kg (rabbit)
- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- Causes damage to organs.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.





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Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 6)

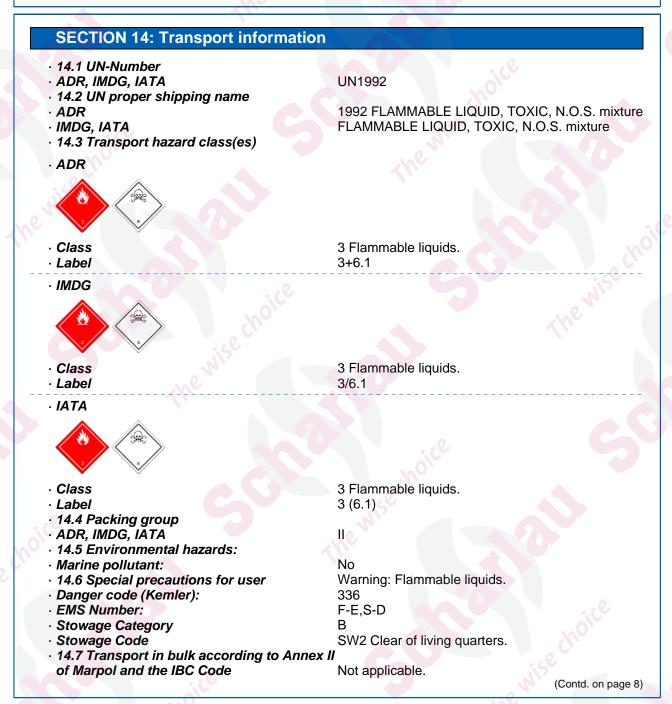
SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.



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Printing date 31.07.2018

Scharlau

Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 7)

 Transport/Additional information: · ADR · Limited quantities (LQ) 1L · Transport category 2 Tunnel restriction code D/E · UN "Model Regulation": UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. MIXTURE, 3 (6.1), II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category
- H2 ACUTE TOXIC
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40, 69

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H370 Causes damage to organs.
- Classification according to Regulation (EC) No 1272/2008
- The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- · Department issuing SDS: product safety department
- Contact: msds@scharlab.com
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2
- Acute Tox. 3: Acute toxicity Category 3

(Contd. on page 9)





Safety data sheet according to 1907/2006/EC, Article 31 (REACH)

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Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 8)

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

(Contd. on page 10)



according to 1907/2006/EC, Article 31 (REACH)

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Revision: 04.07.2018

Trade name: Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration

(Contd. of page 9)

Annex: Exposure scenario

- · Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure
- Avoid contact with eyes. Avoid contact with the skin.
- Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- Other operational conditions affecting consumer exposure No special measures required. Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures
- Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

Personal protective measures Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Measures for consumer protection Ensure adequate labelling.
- Environmental protection measures
- Water No special measures required.

Disposal measures

Disposal must be made according to official regulations. Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · 3 Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- 4 Guidance for downstream users No further relevant information available.