

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 26.07.2018

Version number 5

Revision: 26.07.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** MGG-QUICK Reagent A (turquoise-green): Fixation and cellular conditioning (alcoholic solution)**Article number:** MAD-104.500, MAD-104.1000, MAD-104.2500**Registration number**

This product is a mixture (see chapter 3). Registration number(s) is/are not available for this substance/these substances as the substance(s) or its/their use are exempted from registration according to Article 2 REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

For in vitro diagnosis.

Uses advised against:

No further relevant information available.

Sector of Use SU20 Health services**Product category** PC21 Laboratory chemicals**Process category** PROC15 Use as laboratory reagent**Application of the substance / the mixture**

Immunochemical reagent for detection / auxiliary reagent for in-vitro diagnosis.

1.3 Details of the supplier of the safety data sheet**Manufacturer/Distributor:**

Manufacturer:

Master Diagnóstica, S.L.

Avenida del Conocimiento, nº 100

P.T. Ciencias de la Salud

Granada 18016, Spain

Distributor:

medac GmbH

Theaterstrasse 6

22880 Wedel, Germany

phone: +49 4103 8006-0

Informing department:

Product Safety

productsafety@medac.de

1.4 Emergency telephone number:

Giftinformationszentrum-Nord, Phone: +49 551 19 240 (service in German and English, 24 hours permanently accessible).

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.

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

STOT SE 1 H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation, Dermal.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labeled in accordance with Regulation (EC) No 1272/2008 (GHS/CLP).

Hazard pictograms

GHS02 GHS06 GHS08

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Trade name: MGG-QUICK Reagent A (turquoise-green): Fixation and cellular conditioning (alcoholic solution)

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Signal word Danger**Hazard-determining components of labelling:**

Methanol

Hazard statements

H225 Highly flammable liquid and vapour.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation, Dermal.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves / protective clothing / eye protection
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.

Additional information: Restricted to professional users.**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS02 GHS06 GHS08

Signal word Danger**Hazard-determining components of labelling:**

Methanol

Hazard statements

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation, Dermal.

Precautionary statements

Restricted to professional users.

P280 Wear protective gloves / protective clothing / eye protection
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Substance(s) does/do not meet the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII.**vPvB:** Substance(s) does/do not meet the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Chemical characterisation: substances Not applicable. Product is a mixture.**3.2 Chemical characterisation: Mixtures****Description:** Alcoholic solution.**Dangerous components:**

CAS: 67-56-1	Methanol	75 - <100%
EINECS: 200-659-6	Flam. Liq. 2, H225	
Index number: 603-001-00-X	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	
RTECS: PC 1400000	STOT SE 1, H370	

SVHC Not applicable.

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Additional information For the wording of the listed H-phrases please refer to Section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

First aider: Take care of self-protection.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air.

Call a physician immediately.

After skin contact

Instantly remove contaminated clothes.

Instantly wash with water and soap and rinse thoroughly.

Call a physician.

After eye contact

Rinse eyes cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Consult ophthalmologist.

After swallowing

Let rinse out mouth and then drink plenty of water.

Instantly call a physician, point to methanol.

4.2 Most important symptoms and effects, both acute and delayed Details can be found in Sections 2 and 11.**Information for doctor**

Show Safety Data Sheet.

Treatment according to symptoms.

Danger 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, extinguishing powder, foam or water spray jet.**For safety reasons unsuitable extinguishing agents** Water with full jet.**5.2 Special hazards arising from the substance or mixture**

Combustible mixture.

Vapours are heavier than air and may spread along floors.

In case of warming, formation of explosive vapour/air mixtures is possible.

In the event of fire, development of dangerous fumes or vapours is possible.

Can be released in case of fire:

Carbon monoxide (CO)

Carbon dioxide (CO₂)Nitrogen oxides (NO_x)

Formaldehyde

5.3 Advice for firefighters**Protective equipment:**

In case of fire of large quantities:

Stay in the danger area only with self-contained breathing apparatus.

Prevent skin and eye contact by keeping a safe distance or by wearing suitable protective clothing/safety glasses.

Additional information

Cool endangered containers with water spray jet.

Precipitate gases/fumes/mists with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Do not inhale vapours/aerosols.

Avoid reagent contact with eyes and skin.

Keep away from ignition sources.

Provide sufficient ventilation.

Advice for emergency responders: protective equipment: see Section 8. Keep unprotected personnel away.

6.2 Environmental precautions: Do not empty into drains.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Do not pick up with sawdust or other combustible absorbents.

Afterwards clean with water and cleansing agent.

Dispose of the material collected according to respective national regulations.

Ensure adequate ventilation.

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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Observe label precautions.

Keep containers tightly sealed.

Open and handle container with care.

Prevent formation of vapour/aerosols.

Work in fume cupboard.

Ensure good ventilation/exhaustion at the workplace.

Prevent inhalation, swallowing and contact with eyes and skin.

Information about protection against explosions and fires:

Keep away from open flames, hot surfaces and sources of ignition.

Protect against electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Store container tightly closed in cool, properly ventilated location, apart from ignition and heat sources.

Store at +15 °C to +25 °C.

Reseal opened containers carefully and keep them upright to prevent any leakage.

Avoid exposure to direct sunlight.

Information about storage in one common storage facility: For this mixture no further information available.

Further information about storage conditions:

The indications are valid for the whole package.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Storage class Void.

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see Section 7.

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8.1 Control parameters

Components with critical values that require monitoring at the workplace:

67-56-1 Methanol

WEL	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
Sk	

DNELs For these concentrations no relevant information available.

PNECs For these concentrations no relevant information available.

Additional information: The official lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See Section 7.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Avoid contact with eyes, skin and garments.

Do not inhale vapours/aerosols.

Remove contaminated clothing immediately.

Do not eat or drink while working.

Keep away from food and beverages.

Wash hands during breaks and at the end of the work.

Breathing equipment:

Essential if vapours/aerosols develop.

Filter A (according to standard EN 141) for gases and vapours of organic compounds.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Protection of hands:

Protective gloves (AQL 1.5).

The breakthrough times stated below base on laboratory test methods which cannot fully simulate working conditions. It is the responsibility of the end user to choose the appropriate gloves for his application. If working with substances or mixtures harmful in contact with skin, check the gloves beforehand for holes and fissures.

Material of gloves

Nitrile rubber, NBR

Natural rubber, NR

Thickness 0.11 mm.

Product quality must comply with standard EN 374.

Penetration time of glove material Breakthrough time: > 120 min.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Product has not been designed for permanent contact.

For the permanent contact gloves made of the following materials are suitable:

Product has not been designed for permanent contact.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Product has not been designed for permanent contact.

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Natural rubber, NR

Thickness: 0.11 mm.

Penetration time > 120 min.

Eye protection: Safety glasses (standard EN 166).

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment Do not empty into drains.

Risk management measures Void.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	liquid, clear
Colour:	cyan
Smell:	alcohol-like
Odour threshold:	No information available.

pH-value: No information available.

Change in condition: Not applicable.

Melting point/freezing point: No information available.

Initial boiling point and boiling range: 70 °C

Flash point: 19 °C

Inflammability (solid, gaseous): Highly flammable.

Ignition temperature: 455 °C

Decomposition temperature: No information available.

Self-inflammability: 464 °C

Explosive properties: Product is not explosive. However, the formation of explosive vapour/air mixtures is possible.

Critical values for explosion:

Lower: 5.5 Vol %

Upper: 44 Vol %

Oxidising properties: Not applicable.

Steam pressure at 20 °C: 9166 Pa

Density at 20 °C: 0.84 g/cm³

Relative density at 20 °C: 0.84 g/cm³

Vapour density: No information available.

Evaporation rate: No information available.

Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient: n-octanol/water: No information available.

Viscosity:

dynamic at 20 °C: 1600 cP

kinematic: No information available.

Solvent content:

Organic solvents: 75 - <100 %

Water: >1 %

Solids content: <1 %

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: For this mixture no relevant information available.

10.2 Chemical stability: The product is chemically stable under the indicated storage conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to the specifications.

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling the product according to its intended use.

10.4 Conditions to avoid:

Warming.

Heat, flames, sparks.

Sunlight.

Avoid contact with incompatible materials.

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10.5 Incompatible materials:

Oxidizing substances.
Various plastic materials.
Magnesium.
Zinc alloys.

10.6 Hazardous decomposition products: In case of fire of large quantities: See Section 5.**Additional information:** No further relevant information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute toxicity**

Toxic if swallowed, in contact with skin or if inhaled.

LD/LC₅₀ values that are relevant for classification:**67-56-1 Methanol**

Oral	LD ₅₀	5,630 mg/kg (rat)
Dermal	LD ₅₀	15,800 mg/kg (rab)
Inhalative	LC ₅₀ /4 h	131.25 mg/l (rat)

Specific symptoms in biological assay: No further relevant information available.**Primary irritant effect:****Skin corrosion/irritation**

Risk of skin absorption.

Irritations possible.

Serious eye damage/irritation Irritations possible.**after swallowing:**

After resorption of toxic quantities: nausea, vomiting, headache, vertigo, intoxication, vision disorders, blindness (irreversible damage of the optic nerve), acidosis, decrease of blood pressure (hypotension), excitation, cramps, narcosis, coma. Latency period until onset of effect.

May cause health disorders such as eye damage, liver damage, heart damage, kidney damage.

Swallowing of small quantities may be life-threatening.

after inhalation:

Harmful if inhaled.

Irritations possible.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**Other information (about experimental toxicology):** No further relevant information available.**Subacute to chronic toxicity:**

Methanol may damage the central nervous system, the peripheral nervous system, the optic nerve, liver, kidneys, heart and blood irreversibly.

Toxicokinetics, metabolism and distribution No relevant information available.**Acute effects (acute toxicity, irritation and corrosivity)** Causes damage to organs.**Sensitisation** No sensitising effect known.**Repeated dose toxicity** No further relevant information available.**CMR effects (carcinogenicity, 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 the eyes. Route of exposure: Oral, Inhalation, Dermal.

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.

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12.2 Persistence and degradability Product is easily biodegradable.

Other information: No further relevant information available.

Behaviour in environmental systems:
Components: No relevant information available.

12.3 Bioaccumulative potential Does not significantly accumulate in organisms.

12.4 Mobility in soil No relevant information available.

Additional ecological information:
General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not let enter drains.

12.5 Results of PBT and vPvB assessment
PBT: PBT assessment not available as chemical safety assessment not required/not conducted.

vPvB: vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects No relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product residues have to be disposed of according to the Waste Framework Directive as well as national and regional regulations in each the latest versions.

Uncleaned packagings:
Recommendation: Uncleaned packagings have to be disposed of in the same manner as the product residues.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN1230

14.2 UN proper shipping name
ADR
IMDG, IATA

 1230 METHANOL, solution
METHANOL solution

14.3 Transport hazard class(es)
ADR

Class
Label

 3 (FT1) Flammable liquids.
3+6.1

IMDG

Class
Label

 3 Flammable liquids.
3/6.1

IATA

Class

3 Flammable liquids.

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Label	3 (6.1)
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category Stowage Code	Warning: Flammable liquids. 336 F-E,S-D B SW2 Clear of living quarters.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVSE). Possible national deviations in other countries are not considered.
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN1230, METHANOL, solution, 3 (6.1), II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 See Section 2.

Directive 2012/18/EU

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, 69

National regulations

Information about limitation of use:

Take note of the directive on the protection of young people at work in the latest version.

Take note of the directive on the safety and health at work for pregnant and breast feeding mothers and workers of childbearing age in the latest version.

Class	Share in %
I	75 - <100

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.**SECTION 16: Other information**

All information and recommendations are believed to be correct as of the date of this Safety Data Sheet but shall not be taken to be all inclusive and shall be used only as a guide. All chemicals and preparations may present unknown hazards and should be used with caution. medac shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to the eyes. Route of exposure: Oral, Inhalation, Dermal.

Department issuing data specification sheet: Product Safety**Contact:** productsafety@medac.de**Replaces version from:** 20.11.2013**Reason for alteration:**

Update of the classification.

Change of manufacturer's address and of article number(s).

General editorial revision.

Change of contact address.

Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1