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

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 CO_2, 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 (CO_2)
Nitrogen oxides (NOx)
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.

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/m³, 250 ppm Long-term value: 266 mg/m³, 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/LC$_{50}$ 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 my 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 (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 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	1230 METHANOL, solution
IMDG, IATA	METHANOL solution
14.3 Transport hazard class(es)	
ADR	



Class	3 (FT1) Flammable liquids.
Label	3+6.1
IMDG	



Class	3 Flammable liquids.
Label	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)** **Transport category** **Tunnel restriction code**	 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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 recommodations 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 artice 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