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Information about Compilation of Safety Data Sheets

Product: Protein G Agarose Purification Kit Company: SeraCare Life Sciences Article number: 5720-0004

All components of the aforementioned kit had been classified according to Regulation (EC) No. 1907/2006 (REACH) and to Regulation (EC) No. 1272/2008 (GHS/CLP).

For the kit component Storage Buffer (article number 50-69-01), a Safety Data Sheet had been compiled (enclosure).

For the remaining kit components Protein G Agarose (article number 5720-0002), Binding/Wash Buffer (article number 50-70-01) and Elution Buffer (article number 50-68-01), no Safety Data Sheets are required after classifications according to the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EC) No. 1272/2008 (GHS/CLP).

When handling the kit components, the general and specific safety precautions for laboratories and the corresponding directives have to be followed.

Date of issue: May 2017

medac

Product Safety Safety Health Environment Tel.: +49 (0)4103 8006 0 Fax: +49 (0)4103 8006 100 E-Mail: productsafety@medac.de

Theaterstrasse 6 22880 Wedel Germany

Attachment

Geschäftsführer: Jens Denker Dr. Rainer Dickhardt Jörg Hans Dr. Ulrich Kosciessa Nikolaus Graf Stolberg Heiner Will

Registergericht: Pinneberg HRB 12042 PI

Umsatzsteuer ID: DE 118579535



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

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

1.1 Product identifier

Trade name: Storage Buffer Solution

Article number: 50-69-01

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: RUO (Research Use Only). Uses advised against: For in vitro diagnosis. Sector of Use SU24 Scientific research and development Product category PC21 Laboratory chemicals Process category PROC15 Use as laboratory reagent Application of the substance / the mixture Immunochemical reagent for detection / auxiliary reagent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor: Manufacturer: SeraCare Life Sciences (KPL) 910 Clopper Road Gaithersburgh, Maryland 20878, USA Distributor: medac GmbH Theaterstrasse 6 22880 Wedel, Germany Informing department: Product Safety productsafety@medac.de

phone: +49 4103 8006-0

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. Lig. 3 H226 Flammable liquid and vapour.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat. - No smoking. P233 Keep container tightly closed.

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🚸 Flam. Liq. 2, H225

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10-20%

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Labelling of packages where the contents do not exceed 125 ml Hazard pictograms



Signal word Warning

2.3 Other hazards Void.

Results of PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

3.1. Chemical characterisatiion: substances Not applicable. Product is a mixture.

3.2 Chemical characterisation: Mixtures

Description: Immunochemical reagent / auxiliary reagent

Dangerous components:

CAS: 64-17-5 Ethanol EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000

SVHC Not applicable.

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 After inhalation

Supply fresh air. Seek medical treatment in case of complaints. After skin contact Remove contaminated clothes. Clean contaminated areas with water and soap. In case of symptoms 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. In case of onset of symptoms consult doctor. After swallowing Rinse out mouth. Let drink water (2 glasses maximum). In case of disorders consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further televant information available. 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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents CO₂, foam or extinguishing powder.

For safety reasons unsuitable extinguishing agents For this mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Pay attention to flaschback.

Vapours are heavier than air and may spread along floors.

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

5.3 Advice for firefighters

Protective equipment:

In case of burning of a larger amount: 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.

Additional information

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

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: Avoid reagent contact with eyes and skin. Wear protective clothing. Advice for emergency responders: Protective equipment: see Section 8.

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, sawdust).

Afterwards clean with water and cleansing agent.

Collect the material and dispose of properly. 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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.

Open and handle container with care.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities No further relevant information available. Storage

Requirements to be met by storerooms and containers: Store at +2 °C to +8 °C. Information about storage in one common storage facility: Not required. Further information about storage conditions: The indications are valid for the whole package. Storage class Storage class 3 (VCI) Inflammable liquids.

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

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SECTION 8: Exposure controls/personal protection Additional information about design of technical systems: No further data; see Section 7. 8.1 Control parameters Components with critical values that require monitoring at the workplace: 64-17-5 Ethanol WEL Long-term value: 1920 mg/m³, 1000 ppm DNELs Not applicable. PNECs Not applicable. CAS No. Designation of material % Type Value Unit Additional Occupational Exposure Limit Values for possible hazards during processing: Not applicable. 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 the eyes and skin. 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: Not required. Protection of hands: Disposable medical gloves (AQL 1.5). Material of gloves Nitrile rubber, NBR Natural rubber. NR Thickness 0.11 mm. The product quality has to comply with DIN EN 455. Penetration time of glove material Not applicable. 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. 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. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties **General Information**

Appearance:

Form:

liquid



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Colour:	Colourless	
Smell:	Slightly alcoholic.	
Odour threshold:	No information available.	
Important information on protection of health	h and	
environment, and on safety.	No further relevant information available.	
pH-value at 20 °C:	7.9-8.1	
Change in condition		
Melting point/freezing point:	No information available.	
Initial boiling point and boiling range:	No information available.	
Flash point:	36 °C	
Inflammability (solid, gaseous)	Not applicable.	
Ignition temperature:	425 °C	
Decomposition temperature:	No information available.	
Self-inflammability:	Not self-inflammable.	
Explosive properties:	Not explosive.	
Critical values for explosion:		
Lower:	Not applicable.	
Upper:	Not applicable.	
Oxidising properties	No information available.	
Steam pressure at 20 °C:	57 hPa	
Density	No information available.	
Relative density	No ionformation available.	
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:	No information available.	
kinematic:	No information available.	
Solvent content:		
Organic solvents:	20.0 %	
Water:	>50	
Solids content:	<22 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

10.1 Reactivity The mixture is chemically not reactive.

10.2 Chemical stability The product is chemically stable under the indicated storage conditions. **Thernak decomposition** / **conditions to be avoided:** No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions For these concentrations no relevant information available.

10.4 Conditions to avoid: Heat, flames, sparks.

10.5 Incompatible materials: For these concentrations no further relevant information available.

10.6 Hazardous decomposition products: None known. **Additional information:** No further relevant information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects Data on the toxicity of this mixture are not available. **Acute toxicity** Based on available data, the classification criteria are not met.



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	that are relevant for classification:
64-17-5 Ethanol	
Oral LD50	7060 mg/kg (rat)
Inhalative LC50/	4 h 20000 mg/l (rat)
Specific sympto	ms in biological assay: No further relevant information available.
Primary irritant	
	rritation Slight irritations possible.
	nage/irritation Irritations possible.
	: In this concentration no irritant effects known.
	In this concentrations no irritant effects known.
	kin sensitisation Based on available data, the classification criteria are not met.
	n (about experimental toxicology): No further relevant information available.
	onic toxicity: No further relevant information available.
	blogical information: No further relevant information available.
	metabolism and distribution No relevant information available.
	cute toxicity, irritation and corrosivity) No acute toxicity information available for this product.
	sensitising effect known.
CMR effects (ca	oxicity The substance or mixture is not classified as specific target organ toxicant, repeated exposurcinogenity, mutagenicity and toxicity for reproduction) No relevant information available.
	enicity Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met.
	xicity Based on available data, the classification criteria are not met.
	posure Based on available data, the classification criteria are not met. exposure Based on available data, the classification criteria are not met.
CTOT repeated	XDOSURE Based on available data The classification criteria are not met
	d Based on available data, the classification criteria are not met.

12.2 Persistence and degradability No further relevant information available.
Other information: No further relevant information available.
Behaviour in environmental systems:
Components: Accumulation in organisms is not to be expected.

12.3 Bioaccumulative potential Bioaccumulation is not to be expected.

12.4 Mobility in soil No data available. Ecotoxical effects: Remark: No further relevant information available. Additional ecological information: General notes: Void.

12.5 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.

12.6 Other adverse effects No relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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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	No dangerous good according to ADR special regulation 14 in the latest valid version. UN1170	
14.2 UN proper shipping name IMDG IATA	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), mixture ETHANOL SOLUTION, mixture	
14.3 Transport hazard class(es)		
IMDG, IATA		
Class Label	3 Flammable liquids. 3	
14.4 Packing group IMDG, IATA	III	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user EMS Number:	Not applicable. F-E,S-D	
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 internationa regulations and in the form applicable in Germany (GGVSE) Possible national deviations in other countries are not considered. THESE TRANSPORT REGULATIONS APPLY TO THE WHOLE PACKAGE!	
UN "Model Regulation":	-	

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.
Hazard pictograms See Section 2.
Signal word See Section 2.
Hazard-determining components of labelling: See Section 2.
Hazard statements See Section 2.
Precautionary statements See Section 2.
Chemical safety assessment A chemical safety assessment was not carried out.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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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 %
NK	20.0

Water hazard class: Void.

Other regulations, limitations and prohibitive regulations Void. Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.

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.

Department issuing data specification sheet: Product Safety

Contact: productsafety@medac.de

Replaces version from: 18.07.2014

Reason for alteration: Change of contact address.

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)

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

Flam. Liq. 3: Flammable liquids - Category 3