

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)

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DIARECT AG

Bötzinger Str. 29 B

79111 Freiburg, Germany Tel. +49 761 47979-0 Fax +49 761 47979-29 Email info@diarect.com

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product Name: Glomerular Basement Membrane (GBM; dissociated)

Catalog Number: 16800/16801/16805

Relevant identified uses: For research use or manufacturing only.

Emergency telephone number: Poison Control Center Freiburg. Germany

Tel. +49 761 19240 (24 hours)

Section 2: HAZARDS IDENTIFICATION

Classification: This substance does not need to be classified according to

regulation (EC) No. 1272/2008, or directives 67/548/EEC and

1999/45/EC.

Label: This product does not need to be labeled in accordance with EC

directives or respective national laws.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

General information: Aqueous solution of α 3-Collagen IV-Minicollagen/Glomerular

Basement Membrane (GBM; dissociated).

Ingredients: According to regulation (EC) No. 1272/2008, hazardous and

carcinogenic ingredients with a concentration of less than 1% and 0.1%, respectively, are not considered "relevant ingredients". Hazardous and carcinogenic ingredients that exceed these criteria

are listed below.

IngredientCas No.EC No.ConcentrationUrea57-13-6200-315-5< 30%</td>

Section 4: FIRST AID MEASURES

General information: Consult a physician and show this safety data sheet.

Inhalation: Remove to fresh air and monitor breathing. Consult a physician.

Skin contact: Wash skin immediately with soap and copious amounts of water.

Remove contaminated clothing and shoes and wash before

wearing. Consult a physician.



Section 4: FIRST AID MEASURES (continued)

Eye contact: Flush eyes immediately with copious amounts of water for at least

15 minutes. Assure adequate flushing by separating eyelids with

fingers. Consult a physician.

Ingestion: If the person is conscious, wash out mouth with water. Consult a

physician.

First aider: Wear suitable protective clothing, such as chemical resistant

gloves and chemical safety goggles. Use a NIOSH/MSHA

approved respirator. Handle in laboratory with adequate ventilation.

Most important symptoms

and effects: May be harmful by inhalation, ingestion or skin absorption. May

cause irritation. Prolonged or repeated contact may cause allergic

or autoimmune reactions in certain sensitive individuals.

Toxicological properties have not been thoroughly investigated.

Section 5: FIREFIGHTING MEASURES

Extinguishing media: Use extinguishing media appropriate to surrounding fire conditions

(dry chemical powder, carbon dioxide or water spray

recommended).

Hazardous Combustion or

Decomposition Products: Nature of decomposition products not known.

Advice for firefighters: Wear self-contained breathing apparatus and full protective

clothing to prevent contact with skin and eyes.

Section 6: ACCIDENTAL RELEASE MEASURES

For non-emergency personnel: Evacuate area. Wear suitable protective clothing, such as chemical

resistant gloves and chemical safety goggles. Use a NIOSH/MSHA approved respirator. Handle in laboratory with adequate ventilation.

For emergency responders: Wear suitable protective clothing, such as chemical resistant

gloves and chemical safety goggles. Use a NIOSH/MSHA

approved respirator. Handle in laboratory with adequate ventilation.

Environmental precautions: Do not let product enter drains.

Containment: Place in a suitable, closed bag/container. Avoid raising dust. Hold

for appropriate waste disposal.

Cleaning up: Sweep up, avoid raising dust. Ventilate area and wash spill site

after material pickup is complete.



Section 7: HANDLING AND STORAGE

Handling: Avoid contact and inhalation. Keep container closed and open only

as necessary. Wear protective equipment and follow general

precautionary procedures applying to working in a

laboratory/industrial environment (e.g. wash hands after handling). Follow general rules/regulations of laboratory waste disposal.

Storage: Store at or below -70°C.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Handle in laboratory with adequate ventilation.

Personal protection equipment

Eye and face protection: Wear chemical safety goggles according to appropriate standards

such as EN 166 (EU) NIOSH or (US).

Skin protection: Wear chemical resistant gloves, which meet the specifications of

directive 89/686/EEC. Wear suitable protective clothing according

to the planned work and specific work-place.

Respiratory protection: Use a CEN (EU) or NIOSH/MSHA (US) approved respirator.

Environmental exposure

controls: Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear solution

Physical State: Liquid

Section 10: STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Hazardous decomposition

products: Nature of decomposition products not known.

Hazardous polymerization: Mixture will not form hazardous polymers.

Section 11: TOXICOLOGICAL INFORMATION

General information: Only those hazardous and carcinogenic ingredients of the mixture

are listed, which are present in a concentration of at least 1% and

0.1%, respectively.

Test data are only available for individual ingredients.

The physical, chemical and toxicological characteristics of the

mixture have not been thoroughly investigated.



Section 11: TOXICOLOGICAL INFORMATION (continued)

Urea

Acute toxicity: LD50 oral (rat) 8471 mg/kg

LD50 dermal (rat) 8200 mg/kg

Skin corrosion/irritation: No irritation (skin, rabbit). Eye damage/irritation: No irritation (eyes, rabbit).

Carcinogenicity: No component or substance of this product at levels greater or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

Chronic exposure: No data available. Target organ(s): No data available.

Additional information: May cause nausea or vomiting after swallowing.

Mixture

Chronic exposure: Prolonged or repeated exposure to the mixture may cause allergic

or autoimmune reactions in certain sensitive individuals.

Carcinogenicity: No component or substance of this product at levels greater or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

Section 12: ECOLOGICAL INFORMATION

Urea

Aquatic toxicity: LC50 > 6810 mg/l - 96h (Leiciscus idus)

EC50 > 10000 mg/l - 24h (Daphnia magna)

Other information: Product is biodegradable.

Section 13: DISPOSAL CONSIDERATIONS

Due to the biological nature of this product and as good laboratory Product/packaging disposal:

> practice, we recommend that its disposal includes a biological inactivation step (e.g. by autoclaving, incineration, etc.), even though the biohazard properties of the product do not make such a

step mandatory.

Sewage disposal-relevant

information:

Waste should not be disposed of by release to sewer.

Other disposal

recommendations: Country, federal, state and local regulations concerning disposal

> vary and change frequently. It remains the responsibility of the waste treatment operator to comply with these regulations. For this reason, we recommend that you contact your authorities for information on the disposal of this product and observe any applicable regulations. Alternatively, arrange for disposal by a

licensed disposal company.



Section 14: TRANSPORT INFORMATION

This product is not hazardous and no precautionary steps according to ADR/RID, IMDG, and IATA are necessary.

Section 15: REGULATORY INFORMATION

General information: This safety datasheet was generated according to Regulations

(EC) No 1907/2006 and 1272/2008.

Safety, health and environmental regulations/

environmental regulations/ legislation specific for the

substance or mixture: Not known.

Chemical safety assessment: Not carried out.

Section 16: Other information

Caution: Product has not been fully tested. Based on general health and

good laboratory practice considerations, the observation of the following hazard and precautionary statements is recommended:

Hazard Statements:

H302 Harmful if swallowed H312 Harmful in contact with skin

H332 Harmful if inhaled

Precautionary Statements:

P262 Do not get in eyes, on skin, or on clothing
P280 Wear protective gloves/protective clothing/eye

protection/face protection

P281 Use personal protective equipment as required

Disclaimer: Material should only be handled by qualified, experienced

professionals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. This product is intended for research use or manufacturing only. DIARECT AG shall not be held liable for any damage resulting from the handling or from

contact with the above product.

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