

Safety Data Sheets

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

Version: 1.0/ EN
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Print Date: 18.August 2009
Revision Date: 30 October 2008

Identification of the substance/ preparation and of the company/ undertaking

Product: Glycolmage[®] Sialic Acid Kit
Product Code: 171010
Date of issue: 20.07.2007

Manufacturer/Supplier: GALAB Technologies GmbH
Max-Planck-Str. 1
21502 Geesthacht
Germany

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(number is serviced from 09:00 a.m. to 05:00 p.m.)

Kit Composition / Information on Ingredients

The hazards identified with this kit are those associated with the following substances.
For safety information on the following components please refer to the individual material safety data sheet enclosed to this overview:

- Assay Buffer (Tris buffered saline)
- Detection Buffer (Diethanolamine Solution)
- Equilibration Buffer (Tris buffered saline)

Chemical name	Substance/ Preparation	CAS-No.	EC- number	content %	classification	R-Set
1. Assay Buffer 2. Equilibration Buffer	preparation					
Tris(hydroxymethyl) aminomethane (hydrochloride)		1185-53-1	2146845	1. >20% 2. >2%	Xi	36/37/38
Tris(hydroxymethyl) aminomethane		77-86-1	2010644	1. >8% 2. <1%	Xi	36/37/38
Sodium azide		26628-22- 8	-	< 0,1%		
Detection Buffer	preparation					
Diethanolamine		111-42-2	603-071- 00-1	>10%	Xi, Xn	22-38-41- 48/22
Lectin Conjugate	preparation	-	-		-	-
Sodium azide		26628-22- 8	-	< 0,1%		
Enzyme Conjugate	preparation	-	-		-	-
Substrate	substance	4264-83-9	224-246- 5		-	-

Refer to the Glycolmage[®] Sialic Acid Kit Handbook for proper and intended use!

**Store the Glycolmage[®] Sialic Acid Kit and kit components at 4°C to 8°C
in original packagings.**

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1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name	Product number
Assay Buffer	141020, 141030 (Assay buffer/ Buffer Set) Part of the following product numbers: 171010, 171011, 171012, 171013, 171020, 171021, 171022, 171023, 171030, 171040

Use of the substance/ preparation: Buffer solution used in assay methods as a sample or washing buffer

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Max-Planck-Str. 1
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Emergency Phone: +49 (0) 4152-889 400 (Mo - Fr 09.00 – 17.00)

2. HAZARDS IDENTIFICATION

Classification: The preparation is irritant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation related information:

1. Tris based buffer, pH 8.0, contains sodium azide

Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazards characteristics	R-Set	S-Set
Tris-HCl	1185-53-1	214-684-5	>10	Xi	36/37/38	26-36
Tris base	77-86-1	201-064-4	>5	Xi	36	26
Sodium azide	26628-22-8	247-852-1	0,05	-	-	-

Additional information:

Toxic and environmentally hazardous substances < 0,1 % do not underlie the Directive 1999/45/EC and must not be described in detail.

4. FIRST AID MEASURES

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

In case of ingestion: If swallowed, wash out mouth with water provided person is conscious. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry powder or appropriate foam

Special exposure hazards arising from the substances or preparation itself, combustion products, resulting gases: May be combustible at high temperature. Emits toxic fumes under fire conditions.

Special protective equipment for fire-fighters: Fire fighters should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Be sure to wear an approved/certified respirator or equivalent.

Additional information: The preparation is packed in a plastic bottle.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Removal of ignition sources. Provision for sufficient ventilation and respiratory protection. Control of dust formation. Prevention of skin and eye contact.

Environmental precautions: Keeping away from drains, surface- and ground water and soil, possible need to alert the neighbourhood.

Methods for cleaning-up: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. HANDLING AND STORAGE

Handling: Keep container closed until use. The working temperature can be from 4-20 °C. Do not change the pH of these buffers.

Storage: Store at 4-8 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment: Provide exhaust ventilation.

Respiratory protection: Provide exhaust ventilation.

Hand protection: Handle with gloves.

Eye protection: Safety glasses. Ensure that eye wash stations are proximal to the work station location.

Body protection: Use a lab coat. Ensure that safety showers are proximal to the work station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: liquid, aqueous solution

Colour: colourless (long-time storage at cold temperature may lead to a slightly hazy solution)

Odour: no data available

Safety relevant basis data

pH (20 °C): 8,0

10. STABILITY AND REACTIVITY

The product is stable under the recommended storage and handling conditions.

Conditions to avoid: Freezing. Heating.

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Materials to avoid: Strong oxidising agents.

Hazardous combustion or decomposition products: The nature of decomposition products are not known.

11. TOXICOLOGICAL INFORMATION

Acute effects (toxicity tests): no data available

Specific symptoms an animal studies: no data available

Irritant and corrosive effects: no data available

Irritation to respiratory tract: no data available

Sensitization: no data available

In case of skin contact: no data available

In case of inhalation: no data available

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: no data available

Mobility: no data available

Persistence and degradability: no data available

Biodegradation: The products of degradation are less toxic than the product itself.

13. DISPOSAL CONSIDERATIONS

Appropriate disposal/ Product: Waste must be disposed in accordance with federal, state and local regulations. Contact a licensed disposal service to dispose of this material.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID/ GGVSE): Non-hazardous for road transport.

Sea transport (IMDG-Code/ GGVSee): Non-hazardous for sea transport.

Air transport (ICAO-IATA/ DGR): Non-hazardous for air transport.

15. REGULATORY INFORMATION

EU-Regulations:

Labelling

Chemical name: Tris(hydroxymethyl)aminomethane

Indication of danger: Xi

Classification: irritant

R-Phrases: R 36

Irritating to the eyes

S-Phrases: S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Chemical name: Tris(hydroxymethyl)aminomethane hydrochloride

Indication of danger: Xi

Classification: irritant

R-Phrases: R 36/37/38

Irritating to eyes, respiratory system and skin

S-Phrases: S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing

Chemical name: Sodium azide (> 0,1 %)

Indication of danger: T⁺, N

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Classification:

Very toxic, Dangerous for the environment

R-Phrases:

R 28, 32, 50/53

Very toxic if swallowed.

Contact with acids liberates very toxic gas.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-Phrases:

S 28, 45, 60, 61

After contact with skin, wash immediately with plenty of soapy water.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

16 OTHER INFORMATION

Disclaimer: The information herein is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. GALAB Technologies GmbH makes no representation, warranty or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. The information does not purport to be all inclusive and shall be used only as a guide. GALAB shall not be held liable for any damage resulting from handling or from contact with any damage resulting from handling or from contact with the above product.

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1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name	Product number
Equilibration Buffer	141020 (Assay Buffer Set) Part of the following product numbers: 171010, 171011, 171012, 171013, 171020, 171021, 171022, 171023, 171030, 171040

Use of the substance/ preparation: Buffer solution used in assay methods as an equilibration buffer

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2. HAZARDS IDENTIFICATION

Classification: The preparation is irritant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation related information:

1. Tris based buffer, pH 8.0, contains sodium azide

Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazards characteristics	R-Set	S-Set
Tris-HCl	1185-53-1	214-684-5	>1	Xi	36/37/38	26-36
Tris base	77-86-1	201-064-4	< 1	-	-	-
Sodium azide	26628-22-8	247-852-1	0,05	-	-	-

Additional information:

Toxic and environmentally hazardous substances < 0,1 % do not underlie the Directive 1999/45/EC and must not be described in detail.

4. FIRST AID MEASURES

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

In case of ingestion: If swallowed, wash out mouth with water provided person is conscious. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry powder or appropriate foam

Special exposure hazards arising from the substances or preparation itself, combustion products, resulting gases: May be combustible at high temperature. Emits toxic fumes under fire conditions.

Special protective equipment for fire-fighters: Fire fighters should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Be sure to wear an approved/certified respirator or equivalent.

Additional information: The preparation is packed in a plastic bottle.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Removal of ignition sources. Provision for sufficient ventilation and respiratory protection. Control of dust formation. Prevention of skin and eye contact.

Environmental precautions: Keeping away from drains, surface- and ground water and soil, possible need to alert the neighbourhood.

Methods for cleaning-up: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. HANDLING AND STORAGE

Handling: Keep container closed until use. The working temperature can be from 4-20 °C. Do not change the pH of these buffers.

Storage: Store at 4-8 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment: Provide exhaust ventilation.

Respiratory protection: Provide exhaust ventilation.

Hand protection: Handle with gloves.

Eye protection: Safety glasses. Ensure that eye wash stations are proximal to the work station location.

Body protection: Use a lab coat. Ensure that safety showers are proximal to the work station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: liquid, aqueous solution

Colour: colourless (long-time storage at cold temperature may lead to a slightly hazy solution)

Odour: no data available

Safety relevant basis data

pH (20 °C): 8,0

10. STABILITY AND REACTIVITY

The product is stable under the recommended storage and handling conditions.

Conditions to avoid: Freezing. Heating.

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Materials to avoid: Strong oxidising agents.

Hazardous combustion or decomposition products: The nature of decomposition products are not known.

11. TOXICOLOGICAL INFORMATION

Acute effects (toxicity tests): no data available

Specific symptoms an animal studies: no data available

Irritant and corrosive effects: no data available

Irritation to respiratory tract: no data available

Sensitization: no data available

In case of skin contact: no data available

In case of inhalation: no data available

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: no data available

Mobility: no data available

Persistence and degradability: no data available

Biodegradation: The products of degradation are less toxic than the product itself.

13. DISPOSAL CONSIDERATIONS

Appropriate disposal/ Product: Waste must be disposed in accordance with federal, state and local regulations. Contact a licensed disposal service to dispose of this material.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID/ GGVSE): Non-hazardous for road transport.

Sea transport (IMDG-Code/ GGVSee): Non-hazardous for sea transport.

Air transport (ICAO-IATA/ DGR): Non-hazardous for air transport.

15. REGULATORY INFORMATION

EU-Regulations:

Labelling

Chemical name: Tris(hydroxymethyl)aminomethane

Indication of danger: Xi

Classification: irritant

R-Phrases: R 36

Irritating to the eyes

S-Phrases: S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Chemical name: Tris(hydroxymethyl)aminomethane hydrochloride

Indication of danger: Xi

Classification: irritant

R-Phrases: R 36/37/38

Irritating to eyes, respiratory system and skin

S-Phrases: S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing

Chemical name: Sodium azide (> 0,1 %)

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Indication of danger:

T⁺, N

Classification:

Very toxic, Dangerous for the environment

R-Phrases:

R 28, 32, 50/53

Very toxic if swallowed.

Contact with acids liberates very toxic gas.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-Phrases:

S 28, 45, 60, 61

After contact with skin, wash immediately with plenty of soapy water.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

16 OTHER INFORMATION

Disclaimer: The information herein is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. GALAB Technologies GmbH makes no representation, warranty or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. The information does not purport to be all inclusive and shall be used only as a guide. GALAB shall not be held liable for any damage resulting from handling or from contact with any damage resulting from handling or from contact with the above product.

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1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name	Product number
Equilibration Buffer	141020 (Assay Buffer Set) Part of the following product numbers: 171010, 171011, 171012, 171013, 171020, 171021, 171022, 171023, 171030, 171040

Use of the substance/ preparation: Buffer solution used in assay methods as an equilibration buffer

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2. HAZARDS IDENTIFICATION

Classification: The preparation is irritant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation related information:

1. Tris based buffer, pH 8.0, contains sodium azide

Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazards characteristics	R-Set	S-Set
Tris-HCl	1185-53-1	214-684-5	>1	Xi	36/37/38	26-36
Tris base	77-86-1	201-064-4	< 1	-	-	-
Sodium azide	26628-22-8	247-852-1	0,05	-	-	-

Additional information:

Toxic and environmentally hazardous substances < 0,1 % do not underlie the Directive 1999/45/EC and must not be described in detail.

4. FIRST AID MEASURES

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

In case of ingestion: If swallowed, wash out mouth with water provided person is conscious. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry powder or appropriate foam

Special exposure hazards arising from the substances or preparation itself, combustion products, resulting gases: May be combustible at high temperature. Emits toxic fumes under fire conditions.

Special protective equipment for fire-fighters: Fire fighters should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Be sure to wear an approved/certified respirator or equivalent.

Additional information: The preparation is packed in a plastic bottle.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Removal of ignition sources. Provision for sufficient ventilation and respiratory protection. Control of dust formation. Prevention of skin and eye contact.

Environmental precautions: Keeping away from drains, surface- and ground water and soil, possible need to alert the neighbourhood.

Methods for cleaning-up: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. HANDLING AND STORAGE

Handling: Keep container closed until use. The working temperature can be from 4-20 °C. Do not change the pH of these buffers.

Storage: Store at 4-8 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment: Provide exhaust ventilation.

Respiratory protection: Provide exhaust ventilation.

Hand protection: Handle with gloves.

Eye protection: Safety glasses. Ensure that eye wash stations are proximal to the work station location.

Body protection: Use a lab coat. Ensure that safety showers are proximal to the work station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: liquid, aqueous solution

Colour: colourless (long-time storage at cold temperature may lead to a slightly hazy solution)

Odour: no data available

Safety relevant basis data

pH (20 °C): 8,0

10. STABILITY AND REACTIVITY

The product is stable under the recommended storage and handling conditions.

Conditions to avoid: Freezing. Heating.

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Materials to avoid: Strong oxidising agents.

Hazardous combustion or decomposition products: The nature of decomposition products are not known.

11. TOXICOLOGICAL INFORMATION

Acute effects (toxicity tests): no data available

Specific symptoms an animal studies: no data available

Irritant and corrosive effects: no data available

Irritation to respiratory tract: no data available

Sensitization: no data available

In case of skin contact: no data available

In case of inhalation: no data available

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: no data available

Mobility: no data available

Persistence and degradability: no data available

Biodegradation: The products of degradation are less toxic than the product itself.

13. DISPOSAL CONSIDERATIONS

Appropriate disposal/ Product: Waste must be disposed in accordance with federal, state and local regulations. Contact a licensed disposal service to dispose of this material.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID/ GGVSE): Non-hazardous for road transport.

Sea transport (IMDG-Code/ GGVSee): Non-hazardous for sea transport.

Air transport (ICAO-IATA/ DGR): Non-hazardous for air transport.

15. REGULATORY INFORMATION

EU-Regulations:

Labelling

Chemical name: Diethanolamine

Indication of danger: Xn

Classification: harmful

R-Phrases: R 22, 38, 41, 48/22

S-Phrases: Irritating to the eyes

S 26, 36/37/39, 46

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Chemical name: Sodium azide (> 0,1 %)

Indication of danger: T⁺, N

Classification: Very toxic, Dangerous for the environment

R-Phrases: R 28, 32, 50/53

S-Phrases: Very toxic if swallowed.

Contact with acids liberates very toxic gas.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-Phrases: S 28, 45, 60, 61

After contact with skin, wash immediately with plenty of soapy water.

In case of accident or if you feel unwell, seek medical advice immediately

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(show the label where possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

16 OTHER INFORMATION

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GALAB Technologies GmbH