

# Safety Data Sheet

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

Trade name: -  
Product No: -

Version: 1.0/ EN  
Page: 1 of 4

Print Date: 17 August 2009  
Revision Date: 12 August 2009

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

Product name	Product number
Assay Buffer	<b>141020, 141030</b> (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

Company: GALAB Technologies GmbH  
Max-Planck-Str. 1  
21502 Geesthacht  
Germany  
Telephone: +49 (0) 4152-889400  
Fax: +49 (0) 4152-889401  
E-Mail /Internet: [info@galab.de](mailto:info@galab.de)/[www.galab.de](http://www.galab.de)  
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<sup>+</sup>, 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.

GALAB Technologies GmbH

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

Product name	Product number
Equilibration Buffer	<b>141020</b> (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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Max-Planck-Str. 1  
21502 Geesthacht  
Germany  
Telephone: +49 (0) 4152-889400  
Fax: +49 (0) 4152-889401  
E-Mail /Internet: [info@galab.de](mailto:info@galab.de)/[www.galab.de](http://www.galab.de)  
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	>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<sup>+</sup>, 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**

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Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
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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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## 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<sup>+</sup>, 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