
Material Safety Data Sheet

According to 91/155 EC

GABA ELISA

REF **BA E-2500**

REF **BA E-2600**

Relevant Material Safety Data Sheets:

MSDS BA 001

MSDS BA 010

MSDS BA 025

MSDS BA 028

MSDS BA 040

MSDS BA 046

MSDS BA 055

MSDS BA 058

MSDS BA 060

MSDS BA 061

MSDS BA 080

MSDS BA 087

MSDS BA 313

MSDS BA 001

1. Identification of Substance

Product details:

Trade name: Standard / Control

STANDARD

CONTROL

Manufacturer/Supplier: **Labor Diagnostika Nord GmbH & Co. KG**

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax: +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	odourless.
pH-value:	approx. 1
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0,0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: No dangerous reaction known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Skin contact: No skin irritation known.

Eye contact: Irritation.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.
For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to specific labelling under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):-

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable.

MSDS BA 010

1. Identification of Substance

Product details:

Trade name: Antiserum ^{AS}

Manufacturer/Supplier: **Labor Diagnostika Nord GmbH & Co. KG**

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www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

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2. Composition/Information on Ingredients

Chemical characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection: Wear protective clothing. Remove unprotected persons from danger zone.

Environmental protection: Do not dispose down the drains or into waters.

Methods of cleaning/absorbing: Soak up mechanically with suitable liquid-binding material (sand, diatomite, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothes at once. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Not required

9. Physical and Chemical Properties

Form:	liquid
Colour:	according to type of antiserum dyed blue, yellow or green
Odour:	odourless.
pH-value:	approx. 7.5
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0,0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: No dangerous reaction known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Skin contact: No skin irritation known.

Eye contact: No irritation known.

Further information: Product is not subject to specific labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.
For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to specific labelling under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):-

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable.

MSDS BA 025

1. Identification of Substance

Product details:

Trade name: Wash Buffer Concentrate **WASH-CONC 50x**

Manufacturer/Supplier: **Labor Diagnostika Nord GmbH & Co. KG**

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48531 Nordhorn, Germany

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e-mail: manz@ldn.de

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Emergency call number: Phone: +49 5921 8197 100

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2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Protective glasses

9. Physical and chemical properties

Form:	liquid
Colour:	colourless, transparent
Odour:	odourless
pH-value:	approx. 7.5
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as no dangerous reactions are known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Not eye irritant.

Further information: Product is not subject to labelling

12. Ecological information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.
For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to identification regulations under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):- Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 028

1. Identification of Substance

Product details:

Trade name: Equalizing Reagent

EQUA-REAG

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

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Emergency call number: Phone: +49 5921 8197 100

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2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse the eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothes at once. Always wash hands before having a break and at the end of a working day. Product might be infectious.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Not required

9. Physical and chemical properties

Form:	lyophilized or liquid according to type of antiserum
Colour:	amber
Odour:	odourless
pH-value:	7.2 – 7.4
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as no dangerous reactions are known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: No irritation known.

Further information: Product is not subject to labelling

12. Ecological information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Arising residues are normally wastes which have to be disposed of according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.
For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: This product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to identification regulations under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):- Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 040

1. Identification of Substance

Product details:

Trade name: Conjugate CONJUGATE

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

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48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax. +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Solution

Hazardous ingredients: < 0,01 % Methylisothiazolone, < 0,01 % Bromonitrodioxane

3. Potential Hazards

Hazard specification: Not applicable due to small quantities.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: Consult doctor. Submit this safety data sheet to doctor.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Wash skin immediately using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Wash mouth out thoroughly and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: Use breathing apparatus if required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: Avoid eye and skin contact.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: - 8 B (VCI)

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with job-related limit values which have to be controlled.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form:	liquid
Colour:	red-brown, transparent
Odour:	odourless
pH-value:	approx. 6 – 7
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as there are not any dangerous reactions known.

Hazardous decomposition products: No hazardous decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Eye irritant.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: Not any ecotoxic effects known.

13. Disposal Considerations

Waste from residues: Disposal of residues must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations. For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities no dangerous goods according to above mentioned regulations.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV): -

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-Phrases: (The product is not subject to labelling due to the small quantities.)

MSDS BA 046

1. Identification of Substance

Product details:

Trade name: D-Reagent **D-REAGENT**

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

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48531 Nordhorn, Germany

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e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

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2. Composition/Information on Ingredients

Chemical characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into waters.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless, clear
Odour:	characteristic
pH-value:	6.8 – 7.4
Boiling point:	approx. 189°C
Flashpoint:	87 – 95 °C
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	100%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: No dangerous reaction known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Skin contact: No skin irritation known.

Eye contact: No irritation known.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.

For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: No hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to specific labelling under EU directives.

Observe the general safety regulations when handling chemicals. Product might be infectious.

Classification according to Classification as per German Health and Safety at Work

Regulations (BetrSichV):-

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 055

1. Identification of Substance

Product details:

Trade name: Substrate (TMB) **SUBSTRATE**

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

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www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: 3.3', 5.5' Tetramethylbenzidine < 0,04%

3. Potential Hazards

Hazard specification: Not applicable due to the small quantities.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: Consult doctor. Submit this safety data sheet to doctor.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Wash mouth out thoroughly and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: Wear breathing apparatus if required.

6. Accidental Release Measures

Personal protection: Wear protective clothing. Remove unprotected persons from danger zone.

Environmental protection: Do not dispose down the drains or into ground water.

Methods of cleaning/absorbing: Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: Avoid eye and skin contact.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: 8 B (VCI).

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with job-related limit values which have to be controlled.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothes at once. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Protective glasses

9. Physical and chemical properties

Form:	liquid
Colour:	transparent
Odour:	odourless
pH-value:	approx. 3 - 4
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as there are not any dangerous reactions known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Eye irritant.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: Not any ecotoxic effects known.

13. Disposal Considerations

Waste from residues: Disposal of residues must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations. For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities no dangerous goods according to above mentioned regulations.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work

Regulations (BetrSichV): -

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: 20/21/22-36/37/38-40

(Due to the small quantities the product is not subject to labelling).

MSDS BA 058

1. Identification of Substance

Product details:

Trade name: Q-Buffer **Q-BUFFER**

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax: +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Protective glasses

9. Physical and chemical properties

Form:	liquid
Colour:	colourless, transparent
Odour:	odourless
pH-value:	approx. 8
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as no dangerous reactions are known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Not eye irritant.

Further information: Product is not subject to labelling

12. Ecological information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.

For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to identification regulations under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):- Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 060

1. Identification of Substance

Product details:

Trade name: Diluent

DILUENT

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax: +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special protective equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with job-related limit values which have to be controlled.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (in case of accidental release only!)

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	odourless
pH-value:	approx. 2.9 (BA E-2560), 4.8 (BA E-2460)
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as there are not any dangerous reactions known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Eye irritant.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: Not any ecotoxic effects known.

13. Disposal Considerations

Waste from residues: Disposal of residues must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations. For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities no dangerous goods according to above mentioned regulations.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work

Regulations (BetrSichV): -

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-Phrases: - Not applicable

MSDS BA 061

1. Identification of Substance

Product details:

Trade name: I-Buffer **I-BUFFER**

Manufacturer/Supplier: **Labor Diagnostika Nord GmbH & Co. KG**

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax: +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Protective glasses

9. Physical and chemical properties

Form:	liquid
Colour:	colourless, transparent
Odour:	odourless
pH-value:	approx. 7.5
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as no dangerous reactions are known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Not eye irritant.

Further information: Product is not subject to labelling

12. Ecological information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.

For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to identification regulations under EU directives. Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):- Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 080

1. Identification of Substance

Product details:

Trade name: Stop Solution STOP-SOLN

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax. +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Sulphuric acid (1.5%), [CAS: 7664-93-9], [EINECS: 231-639-5], C, R 35

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Wash skin immediately using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special protective equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: 8 B (VCI).

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with job-related limit values which have to be controlled.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (in case of accidental release only)

Eye protection: Safety glasses

9. Physical and chemical properties

Form:	liquid
Colour:	transparent
Odour:	odourless
pH-value:	approx. 1
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: None, as there are not any dangerous reactions known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Eye irritant.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: Not any ecotoxic effects known.

13. Disposal Considerations

Waste from residues: Disposal of residues must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations. For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities not classified as hazardous material according to above mentioned regulations.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV): -

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: 35 Causes severe chemical burns

(As this product is diluted sulphuric acid (1.5%) only, it is not subject to labelling).

MSDS BA 087

1. Identification of Substance

Product details:

Trade name: NaOH NAOH

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax: +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100
Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves (In case of accidental release only)

Eye protection: Protective glasses

9. Physical and chemical properties

Form:	liquid
Colour:	colourless
Odour:	odourless
pH-value:	approx. 13
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: No dangerous reaction known.

Hazardous decomposition products: No decomposition products known.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: Irritation.

Further information: Product is not subject to labelling

12. Ecological information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.

For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling under EU directives.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):- Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable

MSDS BA 313

1. Identification of Substance

Product details:

Trade name: Assay Buffer **ASSAY-BUFF**

Manufacturer/Supplier: Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany

Phone: +49 5921 8197 100

Fax. +49 5921 8197 106

e-mail: manz@ldn.de

www.ldn.de

Emergency call number: Phone: +49 5921 8197 100

Dr. rer. nat. Bernhard Manz

2. Composition/Information on Ingredients

Chemical Characterization of Preparation

Description: Aqueous solution

Hazardous ingredients: Not applicable.

3. Potential Hazards

Hazard specification: Not applicable.

Special hazard warnings for humans and the environment: The product is not subject to specific labelling under current EU regulations of the "Allgemeine Einstufungsrichtlinie für Zubereitungen der EG".

4. First-aid Measures

General information: No special measures required.

Inhalation: Fresh air supply. In case of discomfort, seek medical attention.

Skin contact: Immediately wash skin using water and soap, then rinse thoroughly with water.

Eye contact: Holding the eyelid open, rinse eye for several minutes using large quantities of water.

Swallowing: Drink large quantities of water and seek medical attention in case of discomfort.

5. Fire-fighting Measures

Suitable extinguishing media: CO₂-powder or jet of water.

Special protective equipment required for fire-fighters: No special equipment required.

6. Accidental Release Measures

Personal protection:	Wear protective clothing. Remove unprotected persons from danger zone.
Environmental protection:	Do not dispose down the drains or into ground water.
Methods of cleaning/absorbing:	Soak up mechanically with suitable liquid-binding material (sand, diatomite, acid binder, universal binder, saw dust).

7. Handling and Storage

Handling

Information on secure handling: No special measures required.

Information on fire and explosive protection: No special fire- and explosion protection measures are required.

Storage

Requirements for storing rooms and containers: There are no special requirements.

Information on storage in one common storage facility: Not applicable.

Further information on storage conditions: Not applicable.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: No further information, also see point 7.

Components with special workplace-related control parameters: The product does not contain any relevant quantities of substances with workplace-related control parameters.

Personal protective equipment

General protection and hygiene measures: Keep away from food, beverages and animal feed. Remove contaminated clothing immediately. Always wash hands before having a break and at the end of a working day. Material might be infectious.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	odourless.
pH-value:	approx. 8.5
Boiling point:	approx. 100°C
Flashpoint:	not applicable
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.

Materials to avoid: No dangerous reaction known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Skin contact: No skin irritation known.

Eye contact: Irritation.

Further information: Product is not subject to labelling.

12. Ecological Information

General information: Not hazardous to water.

Mobility and bioaccumulation: No bioaccumulation known.

Ecotoxicity: No ecotoxicity known.

13. Disposal Considerations

Waste from residues: Disposal must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations.

For references and partners, please refer to www.retrologistik.de

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: -

By sea IMDG/GGVSee

Class: -

By air: ICAO-TI, IATA-DGR

Class: -

Transport / further information: Due to the small quantities this product is not hazardous according to recent regulations on hazardous material.

15. Regulatory Information

Labelling according to EU-Directives: The product is not subject to labelling under EU directives.

Observe the general safety regulations when handling chemicals.

Classification according to Classification as per German Health and Safety at Work Regulations (BetrSichV):-

Water pollution class: Not hazardous to water.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This safety data sheet describes our products with respect to safety requirements, however, it does not provide any guarantee on product properties and does not constitute any legal relationship.

Relevant R-phrases: Not applicable