



Material Safety Data Sheet

Serotonin ELISA

Catalog Number: 17-SERHU-E01-FST

ALPCO Diagnostics

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Safety Data Sheet
According to 91/ 155 EWG
ANTISERUM AS

MSDS BA 010 EN
Date of Issue: 16.09.03
Latest revision: 01.12.08

1. Identification of Substance

Product details:

Trade name: Antiserum AS

Catalogue numbers: BA 0110, BA 0210, BA 0310, BA 0410, BA 0510, BA 0610, BA 0910, BA 3310, BA 5210, BA 7110, BA 7210, BA 7310, BA 8210, BA 10-0110, BA 10-0210, BA 10-0310, BA 10-0410, BA 10-0510, BA 10-0610, BA 10-0710, BA 10-0910, BA 10-1010, BA 10-1910, BA 10-3110, BA 10-5110, BA 10-5210, BA 10-5310, BA 10-8110, BA 10-8210

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 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.



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ANTISERUM **AS**

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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.



Safety Data Sheet
According to 91/ 155 EWG
Acylation Buffer **ACYL-BUFF**

MSDS BA 011 EN
Date of issue: 01.02.08
Latest revision: 01.12.2008

1. Identification of Substance

Product details:

Trade name: Acylation Buffer **ACYL-BUFF**

Catalogue numbers: BA 0911, BA 1611, BA 10-0911, BA 10-3111, R16040901, BA 50-3034

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. 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%



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Acylation Buffer **ACYL-BUFF**

MSDS BA 011 EN
Date of issue: 01.02.08
Latest revision: 01.12.2008

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

 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	Safety Data Sheet According to 91/ 155 EWG Acylation Reagent, Acylation Diluent ACYL-REAG ACYL-DILUENT	MSDS BA 012 EN Date of issue: 16.09.07 Latest revision: 01.12.08
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1. Identification of Substance

Product details:	Acylation Reagent, Acylation Diluent ACYL-REAG ACYL-DILUENT
Catalogue numbers:	BA 0912, BA 1312, BA 1412, BA 1612, BA 3075, BA 10-1075
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: Solution

Hazardous ingredients: N,N-Dimethylformamide **R:** 61-20/21 **S:** 53 - 45

3. Potential Hazards

Hazard specification: Toxic.

Special hazard warnings for humans and the environment: The product might be teratogenic.
Harmful to health upon inhalation and contact with the skin.

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: Use breathing apparatus in case of fire.

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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: - 6.1 A

8. Exposure Control/Personal Protection

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

Components with special workplace-related control parameters:

BAT: 35 mg/l

EG: Probably teratogenic for humans.

TGS 900: 10 ml/m³ 30 mg/m³

Limit value: 4-fold in 15 minutes

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. Material might be infectious.


Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Not applicable

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless, lucent
Odour:	slightly amine-like
pH-value:	7
Boiling point:	approx. 153°C
Flashpoint:	58 – 67°C
Autoignition temperature:	product is not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.

 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	Safety Data Sheet According to 91/ 155 EWG Acylation Reagent, Acylation Diluent ACYL-REAG ACYL-DILUENT	MSDS BA 012 EN Date of issue: 16.09.07 Latest revision: 01.12.08
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Density: approx. 1g / cm³.
Solubility: Water: 100%.
Solvent percentage: 100%

10. Stability and Reactivity

Conditions to avoid: No decomposition if used according to specifications.
Materials to avoid: Excessive heat.
Hazardous decomposition products: Nitrogene oxides may develop in case of fire.

11. Toxicological Information

Skin contact: Harmful to health.
Eye contact: Eye irritant.
Further information: Product might be teratogenic. Harmful to health upon inhalation and contact with skin. Product to be labelled as toxic.

12. Ecological Information

General information: Hazardous to water. Fast decomposition when exposed to air.
Mobility and bioaccumulation: No bioaccumulation known.
Ecotoxicity: Do not dispose into water, canalization or soil.

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: UN 2265.

15. Regulatory information

Labelling according to EU-Directives: The product is subject to labelling.

Toxic 

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


	<p style="text-align: center;">Safety Data Sheet According to 91/ 155 EWG Acylation Reagent, Acylation Diluent ACYL-REAG ACYL-DILUENT</p>	MSDS BA 012 EN Date of issue: 16.09.07 Latest revision: 01.12.08
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Regulations (BetrSichV):- Observe employment restriction for adolescents or pregnant or breast feeding women.

Water pollution class: Slightly hazardous to water.

16. Other Information

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 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	<p align="center">Safety Data Sheet According to 91/ 155 EWG Assay Buffer ASSAY-BUFF Sample Buffer SAMPLE-BUFF</p>	<p>MSDS BA 013 EN Date of issue: 16.09.03 Latest revision: 01.12.2008</p>
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1. Identification of Substance

Product details:

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

Catalogue numbers: BA 10-1613, BA 10-1241

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: Hydrochloric acid (<2%), C, R 36/38

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.

 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	Safety Data Sheet According to 91/ 155 EWG Assay Buffer ASSAY-BUFF Sample Buffer SAMPLE-BUFF	MSDS BA 013 EN Date of issue: 16.09.03 Latest revision: 01.12.2008
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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 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:	not self-igniting
Explosion properties:	not explosive.
Vapour pressure:	undetermined.
Density:	approx. 1g / cm ³ .
Solubility:	Water: 100%.
Solvent percentage:	< 0.0%

	Safety Data Sheet According to 91/ 155 EWG Assay Buffer ASSAY-BUFF Sample Buffer SAMPLE-BUFF	MSDS BA 013 EN Date of issue: 16.09.03 Latest revision: 01.12.2008
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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):-
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.

	<p style="text-align: center;">Safety Data Sheet According to 91/ 155 EWG Assay Buffer ASSAY-BUFF Sample Buffer SAMPLE-BUFF</p>	<p>MSDS BA 013 EN Date of issue: 16.09.03 Latest revision: 01.12.2008</p>
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Relevant R-phrases: 36/38 (Products are not subject to labelling as this is diluted hydrochloric acid (1,5%))



1. Identification of Substance

Product details:

Trade name: Coenzyme **COENZYME**

Catalogue numbers: BA 1614

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: Safety glasses

9. Physikalische und chemische Eigenschaften

Form:	liquid
Colour:	colourless
Odour:	odourless
pH-value:	approx. 1.
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.

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):-
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



1. Identification of Substance

Product details:

Trade name: Enzyme **ENZYME**

Catalogue numbers: BA 1615

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: Lyophilisate

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: Not required

9. Physical and chemical properties

Form:	lyophilized
Colour:	testaceous
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: 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):-

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



1. Identification of Substance

Product details:

Trade name: Extraction Buffer **EXTRACT-BUFF**

Catalogue numbers: BA 1617

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. 9
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



1. Identification of Substance

Product details:

Trade name: Release Buffer **RELEASE-BUFF** HCL **HCL**

Catalogue numbers: BA 1619, BA 7626

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: Protectives 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:	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



Safety data sheet
According to 91/ 155 EWG
Adjustment Buffer **ADJUST-BUFF**

MSDS BA 050 EN
Date of issue: 01.02.08
Latest revision: 01.12.08

1. Identification of Substance

Product details:

Trade name: Adjustment Buffer

ADJUST-BUFF

Catalogue number: BA 3050

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 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 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. The product might be infectious.

Inhalation protection: Not applicable.

Hand protection: Suitable protective gloves

Eye protection: Not applicable

9. Physical and Chemical Properties

Form:	liquid
Colour:	transparent
Odour:	odourless
pH-value:	approx. 7 - 9
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.



Safety data sheet
According to 91/ 155 EWG
Adjustment Buffer **ADJUST-BUFF**

MSDS BA 050 EN
Date of issue: 01.02.08
Latest revision: 01.12.08

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: Not any ecotoxic effects 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: 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.

 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	<p align="center">Safety Data Sheet According to 91/155 EWG Acylation Reagent ACYL-REAG</p>	<p>MSDS BA 112 EN Date of issue: 16.09.03 Latest revision: 01.12.08</p>
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1. Identification of Substance

Product details: Acylation Reagent

ACYL-REAG

Catalogue numbers: BA 10-3112, BA 10-1012, R16043102, BA 5612, BA 8312, BA 50-3012

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.

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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:	7.2 – 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%

	Safety Data Sheet According to 91/ 155 EWG Acylation Reagent ACYL-REAG	MSDS BA 112 EN Date of issue: 16.09.03 Latest revision: 01.12.08
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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.

	<p>Safety Data Sheet According to 91/ 155 EWG Acylation Reagent ACYL-REAG</p>	<p>MSDS BA 112 EN Date of issue: 16.09.03 Latest revision: 01.12.08</p>
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Relevante R-phrases: Not applicable.



1. Identification of Substance

Product details:

Trade name: Stop Solution **STOP-SOLN**

Catalogue numbers: BA 10-0080

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).



1. Identification of Substance

Product details:

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

Catalogue number: BA 10-0055

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: 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).

 <p>LDN Labor Diagnostika Nord GmbH & Co. KG</p>	Safety Data Sheet According to 91/ 155 EWG Standard / Control / HCL <input type="checkbox"/> STANDARD <input type="checkbox"/> CONTROL	MSDS BA 001 EN Date of issue: 16.09.07 Latest revision: 01.12.08
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1. Identification of Substance

Product details:

Trade name: Standard / Control

STANDARD CONTROL

Catalogue numbers: BA 1301 - BA 1306, BA 1351 - BA 1352, BA 1601 - BA 1606, BA 1651 - BA 1652, BA 1609, BA 5601 - BA 5606, BA 5651 - BA 5652, BA 7601 - BA 7606, BA 7651 - BA 7652, BA 8301 - BA 8306, BA 8351 - BA 8352, BA 10-1001 - BA10-1006, BA 10-1051 - BA 10-1052, BA 10-1601 - BA10-1606, BA 10-1651 - BA 10-1652, BA 10-1609, BA 10-3101 - BA10-3106, BA 10-3151 - BA 10-3152, BA 20-3001 - BA 20-3006

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.

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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.

 <small>LDN</small> <small>Lehrer-Dependenz Nord</small>	Safety Data Sheet According to 91/ 155 EWG Standard / Control / HCL <small>STANDARD</small> <small>CONTROL</small>	MSDS BA 001 EN Date of issue: 16.09.07 Latest revision: 01.12.08
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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.



Safety Data Sheet
According to 91/155 EWG
Wash buffer **WASH-CONC 25x**

MSDS BA 025 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

1. Identification of Substance

Product details:

Trade name: Wash Buffer Concentrate **WASH-CONC 25x**

Catalogue numbers: BA10-0025

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.



Safety Data Sheet
According to 91/155 EWG
Wash buffer **WASH-CONC 25x**

MSDS BA 025 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

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 / cm³.
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.



Safety Data Sheet
According to 91/155 EWG
Wash buffer **WASH-CONC** 25x

MSDS BA 025 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

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



Safety Data Sheet
According to 91/155 EWG
Conjugate **CONJUGATE**

MSDS BA 040 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

1. Identification of Substance

Product details:

Trade name: Conjugate **CONJUGATE**

Catalogue numbers: BA 10-0040, BA 10-1040, BA 10-3140

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: 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.



Safety Data Sheet
According to 91/155 EWG
Conjugate **CONJUGATE**

MSDS BA 040 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

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 / cm³.
Solubility: Water: 100%.
Solvent percentage: < 0.0%



Safety Data Sheet
According to 91/155 EWG
Conjugate **CONJUGATE**

MSDS BA 040 EN
Date of issue: 16.09.03
Latest revision: 01.12.08

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.)