
Material Safety Data Sheet

According to 91/155 EC

Catecholamines RIA

REF IB88161	REF IB88171
REF IB88162	REF IB88172
REF IB88163	REF IB88173
REF IB88165	REF IB88175
REF IB88166	REF IB88176

Relevant Material Safety Data Sheets:

MSDS BA 001

MSDS BA 010

MSDS BA 011

MSDS BA 012

MSDS BA 013 (only IB88161, IB88162, IB88163, IB88165, IB88166)

MSDS BA 014

MSDS BA 015

MSDS BA 017 (only IB88161, IB88162, IB88163, IB88165, IB88166)

MSDS BA 019 (only IB88161, IB88162, IB88163, IB88165, IB88166)

MSDS BA 020

MSDS BA 025 (only IB88161, IB88162, IB88163, IB88165, IB88166)

MSDS BA 026 (only IB88171, IB88172, IB88173, IB88175, IB88176)

MSDS BA 030

MSDS BA 045 (only IB88171, IB88172, IB88173, IB88175, IB88176)

MSDS BA 050

Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave NE, Suite P
Minneapolis, MN 55432
Toll Free: (888) 523-1246
Fax: (763) 780-2988
www.ibl-america.com
info@ibl-america.com



MSDS BA 001

1. Identification of Substance

Product details:

Trade name: Standard / Control

STANDARD

CONTROL

Supplier Information: Immuno-Biological Laboratories, Inc.

8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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.

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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**

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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.

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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.

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MSDS BA 011

1. Identification of Substance

Product details:

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

Supplier Information: **Immuno-Biological Laboratories, Inc.**

8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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%

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.

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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

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www.ibl-america.com
info@ibl-america.com



MSDS BA 012

1. Identification of Substance

Product details: **Acylation Reagent, Acylation Diluent**

ACYL-REAG

ACYL-DILUENT

Supplier Information: **Immuno-Biological Laboratories, Inc.**

8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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.

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).

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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.

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: Nitrogen 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.

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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

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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www.ibl-america.com

info@ibl-america.com



MSDS BA 013

1. Identification of Substance

Product details:

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

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

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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.

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).

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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%

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.

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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: 36/38 (Products are not subject to labelling as this is diluted hydrochloric acid (1,5%))

MSDS BA 014

1. Identification of Substance

Product details:

Trade name: Coenzyme COENZYME

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave NE, Suite P

Minneapolis, MN 55432

Toll Free: (888) 523-1246

Fax: (763) 780-2988

www.ibl-america.com

info@ibl-america.com



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.

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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

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Relevant R-phrases: Not applicable

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MSDS BA 015

1. Identification of Substance

Product details:

Trade name: Enzyme ENZYME

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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

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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

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Relevant R-phrases: Not applicable

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MSDS BA 017

1. Identification of Substance

Product details:

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

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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

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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

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Relevant R-phrases: Not applicable

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MSDS BA 019

1. Identification of Substance

Product details:

Trade name: HCL HCL

Catalogue numbers: BA E-5619, BA R-8619

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

Manufactured for:

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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. 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

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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

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MSDS BA 020

1. Identification of Substance

Product details:

Trade name: Iodine ¹²⁵I 

Supplier Information: **Immuno-Biological Laboratories, Inc.**

8201 Central Ave NE, Suite P

Minneapolis, Minnesota 55432

Tel: 763-780-2955

Fax: 763-780-2988

www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

2. Composition / Information on Ingredients

Chemical Characterization of preparation

Description: Aqueous solution

Hazardous ingredients: I-125, radioactive substance (100 – 200 kBq/bottle) with 60 days half-life

3. Potential Hazards

Hazard specification: Radioactive material

Special hazard warnings for humans and the environment: For information with respect to hazards for human beings and the environment please refer to the Atomic Energy Act or Radiological Protection Ordinance. The product must be labelled as radioactive material.

4. First-aid measures

General information: In case of contamination immediately contact radiation protection officer. First-aid measures should be administered before radiation protection measures.

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. Use decontamination agent if contamination could not be removed.

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. Cordon off danger zone and mark up if required.

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, activated charcoal, universal binder, saw dust).

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7. Handling and Storage

Handling

Information on secure handling: Observe regulations on handling of radioactive substances.

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

Storage

Requirements for storing rooms and containers: The storage room must be specially marked and be kept locked.

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

Further information on storage conditions: Radioactive substances may be stored in specially marked areas only.

Storage class: -

8. Exposure Control/Personal Protection

Additional information for system design: Separate, lockable space required, also see point 7.

Components with special workplace-related control parameters: Limit values for I-125 must be adhered to.

Personal protective equipment

General protection and hygiene measures: Consumption and storage of food and beverages is prohibited in rooms where I-125 is handled with. 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: Not applicable

9. Physical and chemical properties

Form:	liquid
Colour:	red
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: Radioactive contamination.

Eye contact: Radioactive contamination.

Further information: Product is radioactive

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12. Ecological information

General information: Product is radioactive.

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

13. Disposal Considerations

Waste from residues: The wastes must be marked "radioactive" and disposal must be made according to official regulations

14. Transport information

International regulations:

Transport by road: RID/ ADR/ DoT49 CFR

Class: UN 2910 radioactive substance, excepted package, limited quantity

By sea IMDG/GGVSee

Class: UN 2910 radioactive substance, excepted package, limited quantity

By air: ICAO-TI, IATA-DGR

Class: UN 2910 radioactive substance, excepted package, limited quantity

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 subject to labelling under EU directives.

Radioactive 

16. Other Information

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MSDS BA 025

1. Identification of Substance

Product details:

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

Supplier Information: **Immuno-Biological Laboratories, Inc.**
8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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

Manufactured for:

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8201 Central Ave NE, Suite P

Minneapolis, MN 55432

Toll Free: (888) 523-1246

Fax: (763) 780-2988

www.ibl-america.com

info@ibl-america.com



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

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MSDS BA 026

1. Identification of Substance

Product details:

Trade name: Release Buffer RELEASE-BUFF

Supplier Information: Immuno-Biological Laboratories, Inc.

8201 Central Ave NE, Suite P

Minneapolis, Minnesota 55432

Tel: 763-780-2955

Fax: 763-780-2988

www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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. 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

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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

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MSDS BA 030

1. Identification of Substance

Product details:

Trade name: Precipitation Reagent PREC-REAG

Supplier Information: Immuno-Biological Laboratories, Inc.

8201 Central Ave NE, Suite P

Minneapolis, Minnesota 55432

Tel: 763-780-2955

Fax: 763-780-2988

www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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.

Inhalation protection: Not applicable.

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

Eye protection: Not applicable

9. Physical and chemical properties

Form:	liquid
Colour:	colourless, yellowish
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: No irritation known.

Further information: Product is not subject to labelling

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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: Residues 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 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

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MSDS BA 050

1. Identification of Substance

Product details:

Trade name: Adjustment Buffer

ADJUST-BUFF

Supplier Information: Immuno-Biological Laboratories, Inc.

8201 Central Ave NE, Suite P
Minneapolis, Minnesota 55432
Tel: 763-780-2955
Fax: 763-780-2988
www.ibl-america.com

Emergency call number: In the event of a medical emergency, please dial 911.

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).

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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.

11. Toxicological Information

Skin contact: No irritation known.

Eye contact: No irritation known.

Further information: Product is not subject to labelling.

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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

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Relevant R-phrases: Not applicable.