

Safety Data Sheet According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

REF article name

MS E-5600 Plasma Renin Activity (PRA) ELISA **MS E-5600R** Plasma Renin Activity (PRA) ELISA



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: 1. Angiotensin-I-Biotin Conjugate

2. Streptavidin-Horseradish Peroxidase Conjugate Concentrate

3. Angiotensin-I Calibrators A, B, C, D, E, F, G, H

4. Angiotensin-I Control 1, and 2

5. Assay Buffer6. Microplate

Product Code: 1. MS E-5610

2. MS E-5640

3. MS E-5601 - MS E-5608 4. MS E-5651 & MS E-5652

5. MS E-5613 6. MS E-5631

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: To be used as a component with the Plasma Renin Activity

(PRA) ELISA according to the Instructions for Use provided with

the kit.

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201 Contact email support@ldn.de

1.4 Emergency telephone number

Telephone Refer to Appendix A of this document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

This preparation is classified as not dangerous according to CLP (EC) No 1272/2008.

2.2 Label elements according with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Hazard Pictogram: Not applicable.
Signal Word: Not applicable.
Hazard Statement: Not applicable.
Precaution: Not applicable.

Trade Name: Biotin Conjugate, Streptavidin-Horseradish Peroxidase Conjugate, Calibrators A-H, Control 1&2, Assay Buffer, Microplate

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Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.

Disposal: Not applicable. Additional Hazards: Not applicable.

2.3 Other hazards

PBT & vPvB: See section 12.5 for more detailed information on PBT and vPvB.

SECTION 3: Composition/information on ingredients

No substances fulfill the criteria set forth in Annex II, section A of the REACH regulation (EC) $n^8878/2020$.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye: In case of contact, immediately flush eyes with plenty of water. If

easy to do, remove contact lenses, if worn. If eye irritation

persists: Get medical advice/attention.

Skin: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get immediate

medical advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an

unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye: May cause eye irritation. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness

and swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, edema,

drying, defatting and cracking of the skin.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea

or vomiting.



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4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing

odia ·

Treat for surrounding material.

Media:

Unsuitable Extinguishing

None known.

Media:

5.2 Special hazards arising from the substance or mixture

Products of Combustion: May include and are not limited to: oxides of carbon.

5.3 Advice for firefighters

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full

Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes. Do not breathe vapour or mist.

6.2 Environmental precautions

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning up

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand,

vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective

Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Provide

ventilation.

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

Trade Name: Biotin Conjugate, Streptavidin-Horseradish Peroxidase Conjugate, Calibrators A-H, Control 1&2, Assay Buffer, Microplate

Product No: MS E-5610, MS E-5640, MS E-5601 - MS E-5608, MS E-5651 & MS E-5652, MS E-5613, MS E-5631



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SECTON 7: Handling and storage

7.1 Precautions for safe handling

Handling: Users should have a thorough understanding how to use this

product. Do not breathe gas/fumes/ vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See

section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Keep container tightly closed

and in a well-ventilated place. Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Unused chemicals should not be returned to the container.

(See section 10)

7.3 Specific end use(s)

End uses: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Ingredient | UK - Occupational Exposure Limits (TWA) |
|------------|---|
| | |
| | Not applicable. |

8.2 Exposure controls

Appropriate Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. <u>Eye/face protection:</u> Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield)

protection.

<u>Hand protection:</u> Wear solvent resistant gloves.

<u>Body Protection:</u> Wear suitable protective clothing, including appropriate boots, boot covers, overshoes, etc., as may be

appropriate.

Respiratory Protection: In case of insufficient ventilation, wear

suitable respiratory equipment.

Trade Name: Biotin Conjugate, Streptavidin-Horseradish Peroxidase Conjugate, Calibrators A-H, Control 1&2, Assay Buffer, Microplate



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General Health & Safety Measures:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Environmental Exposure Controls:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid. Appearance: Not available. Color: Not available. Odour: Not available. Odour Threshold: Not available. pH: Not available. Melting Point: Not available. **Boiling Point:** Not available. Flash Point: Not available. Evaporation Rate: Not available. Flammability: Not Flammable. Lower Flammability/Explosive Limit: Not available. Upper Flammability/Explosive Limit: Not available. Vapor Pressure: Not available. Not available. Vapor Density: Not available. Relative Density: Solubility: Not available. Partition coefficient: n-octanol/water: Not available. Auto-ignition Temperature: Not available. Not available. Decomposition Temperature: Not available. Viscosity: **Explosive Properties:** Not available. Oxidizing Properties: Not available.

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reaction known under conditions of

normal use

10.2 Chemical stability Stable under normal storage conditions

10.3 Possibility of hazardous No dangerous reactions known under conditions of

reactions normal use

10.4 Conditions to avoid Heat. Incompatible materials

10.5 Incompatible materials None known

Trade Name: Biotin Conjugate, Streptavidin-Horseradish Peroxidase Conjugate, Calibrators A-H, Control 1&2, Assay Buffer, Microplate

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10.6 Hazardous decomposition products

May include and are no limited to oxides of carbon

SECTION 11: Toxicological information

Acute toxicity Unknown toxicity

1% of Biotin Conjugate consists of ingredient(s) of

unknown toxicity.

100% of Streptavidin-Horseradish Peroxidase Conjugate consists of ingredient(s) of unknown

toxicity.

3% of Calibrators A-H and Controls 1& 2 consists of

ingredient(s) of unknown toxicity.

0.7% Assay Buffer consists of ingredient(s) of unknown

toxicity.

Inhalation May cause respiratory tract irritation

Ingestion May be harmful if swallowed. May cause stomach

distress, nausea or vomiting

Skin corrosion May cause skin irritation. Symptoms may include

redness, edema, drying, defatting and cracking of the

skin.

Eye damage May cause eye irritation. Symptoms may include

discomfort or pain, excess blinking and tear

production, with marked redness and swelling of the

conjunctiva.

Respiratory sensitisation Based on available data, the classification criteria are

not met.

Germ cell mutagenicity This product is not classified as a mutagen.

Carcinogenicity This product is not classified as a carcinogen.

Reproductive toxicity This product does not contain known reproductive or

developmental toxins

Unique specific toxicity Based on available data, the classification criteria are

not met

Repeated specific toxicity Based on available data, the classification criteria are

not met

Aspiration hazard Not expected to occur



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Other information Not available

SECTION 12: Ecological information

12.1 Toxicity May cause long-term adverse effects in the aquatic

environment

0.8% of Biotin Conjugate consists of ingredient(s) of

unknown aquatic hazards.

100% of Streptavidin-Horseradish Peroxidase

Conjugate consists of ingredient(s) of unknown aquatic

hazards.

99% of Calibrators A-H and Controls 1&2 consists of

ingredient(s) of unknown aquatic hazards.

99% Assay Buffer consists of ingredient(s) of unknown

aquatic hazards

12.2 Persistence and degradability Not available

12.3 Bioaccumulative potential Not available

12.4 Mobility in soil Not available

12.5 Results of PBT and vPvB A PBT assessment has not yet been carried out under

REACH for the constituents. However, there are no indications that this product contains substances likely

to be classified as PBT

A vPvB assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances likely

to be classified as vPvB

12.6 Other adverse effects Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

assessment

Disposal Method: This material must be disposed of in accordance with

all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.



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SECTION 14: Transport information

14.1 UN number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packaging group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Do not handle until all safety precautions have been

read and understood

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC

Code

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; as well as the EU Directives 67/548/EEC and 1999/45/EC and take into account the intended product use.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Relevant R-, H- and EUH- Phrases:

Not Applicable

Legend:

PBT - Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative CAS No - Chemical Abstracts Service Number EC No - European Commission Number

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REACH No - Registration, Evaluation, Authorisation and restriction of Chemicals Number STOT Specific target organ toxicity $log K_{o/w}$ - Partition coefficient n-octanol/water BCF - Bioconcentration Factor

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End of Safety Data Sheet



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: GENERATION BUFFER

Product Code: MS E-5616

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use:

To be used as a component with the Plasma Renin Activity (PRA) ELISA kit according to the instructions provided with the

kit.

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201 Contact email support@ldn.de

1.4 Emergency telephone number

Telephone Refer to Appendix A of the document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Hazard class Hazard Statement

Acute toxicity 4 (Acute Tox. 4) H332 Harmful if inhaled.

Skin sensitization 1 (Skin Sens. 1) H317 May cause an allergic skin reaction.
Respiratory sensitization 1 (Resp. Sens. 1) H334 May cause allergy or asthma symptoms

or breathing difficulties if inhaled.

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

Hazard class R - Phrase

None. R42 May cause sensitization by inhalation. R43 May cause sensitization by skin contact.

2.2 Label elements

Labeling in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Trade Name: Generation Buffer



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Hazard Pictogram:



Signal Word: Danger

Hazard Statement: H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Precaution: Not applicable.

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P285 In case of inadequate ventilation wear respiratory

protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P342+P311 If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/physician.

Storage: P402+P404 Store in a dry place. Store in a closed container.

Disposal: P501 Dispose of contents and container in accordance with all

local, regional, national and international regulations.

Additional Hazards: Not applicable.

2.3 Other hazards

PBT & vPvB: See section 12.5 for more detailed information on PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|-------------|----------|---------------|----------------|-------|---|
| | 1 | I | | 1 | A. I. T. 411202 |
| Maleic acid | 110-16-7 | 203-742- 5 | Not available. | 1 - 5 | Acute Tox. 4 H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3 H335 |

Trade Name: Generation Buffer



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| Neomycin sulfate | 1405-10- | 215-773- | Not available. | 0.5 - 1.5 | Skin Sens. 1 H317 |
|---------------------------------------|----------|----------|----------------|-----------|--------------------|
| · · · · · · · · · · · · · · · · · · · | 3 | 1 | | | Resp. Sens. 1 H334 |

Classification according to 67/548/EEC

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class | | |
|------------------|---------------|---------------|----------------|-----------|---------------------------------|--|--|
| | | | | | | | |
| Maleic acid | 110-16-7 | 203-742- 5 | Not available. | 1 - 5 | Xn; R22 R43 Xi; R36/37/38 | | |
| Neomycin sulfate | 1405-10- 3 | 215-773- 1 | Not available. | 0.5 - 1.5 | R43; R42 | | |

Full text of R-, H- and EUH- phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye: In case of contact, immediately flush eyes with plenty of water for

at least 15 minutes. If easy to do, remove contact lenses, if worn.

Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get immediate

medical advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an

unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye: May cause eye irritation. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness

and swelling of the conjunctiva.

Skin: Causes sensitization by skin contact. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

Inhalation: Harmful by inhalation. Causes respiratory sensitization.

Symptoms: vapours may cause drowsiness and dizziness.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea

or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

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Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Products of Combustion: May include, and are not limited to: oxides of carbon.

5.3 Advice for firefighters

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full

Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes. Do not breathe vapour or mist.

6.2 Environmental precautions

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning up

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand,

vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective

Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Provide

ventilation.

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

Trade Name: Generation Buffer



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SECTON 7: Handling and storage

7.1 Precautions for safe handling

Handling: Users should have a thorough understanding how to use this

product. Do not breathe gas/fumes/ vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See

section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Keep container tightly closed.

Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Unused chemicals should not

be returned to the container. (See section 10)

7.3 Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Ingredient | UK - Occupational Exposure Limits (TWA) |
|------------------|---|
| Maleic acid | Not available. |
| Neomycin sulfate | Not available. |

8.2 Exposure controls

dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection Wear approved eye (properly fitted dust- or splash-proof chemical

safety goggles) / face (face shield) protection.

Skin Protection:

Hand Protection Wear solvent resistant gloves.

Body Protection Wear suitable protective clothing, including appropriate boots,

boot covers, overshoes, etc., as may be appropriate.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory

equipment.

General Health & Safety

Measures

Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking.

Trade Name: Generation Buffer



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Environmental Exposure Controls

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Not available. Appearance: Color: Not available. Odour: Not available. Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available. Not available. Melting Point: **Boiling Point:** Not available. Not available. Flash Point: Not available. **Evaporation Rate:** Flammability: Not Flammable. Not available. Lower Flammability/Explosive

Limit:

Upper Flammability/Explosive

Limit:

Vapor Pressure: Not available. Vapor Density: Not available. Relative Density: Not available. Solubility: Not available. Partition coefficient: n-Not available.

octanol/water:

Auto-ignition Temperature: Not available. Decomposition Temperature: Not available. Not available. Viscosity: **Explosive Properties:** Not available. Oxidizing Properties: Not available.

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

No dangerous reaction known under conditions of normal 10.1 Reactivity

10.2 Chemical stability Stable under normal storage conditions.

use.

10.3 Possibility of hazardous No dangerous reaction known under conditions of normal

Not available.

reactions

Trade Name: Generation Buffer Product No: MS E-5616



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10.4 Conditions to avoid Heat. Incompatible materials.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition May include and are not lin

products

May include and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, and

ingestion.

Acute Health Effects:

Eye: May cause eye irritation. Symptoms may include discomfort

or pain, excess blinking and tear production, with marked

redness and swelling of the conjunctiva.

Skin: Cause sensitization by skin contact. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress,

nausea or vomiting.

Inhalation: Harmful by inhalation. Causes respiratory sensitization.

Symptoms: vapours may cause drowsiness and dizziness.

Acute Toxicity:

| Ingredient | LC50 | LD50 | |
|------------------|-------------------------------|--------------------------|--|
| | | | |
| | | Oral Rat 708 mg/kg | |
| Maleic acid | Inhalation Rat >0.72 mg/L 1 h | Dermal Rabbit 1560 mg/kg | |
| Neomycin sulfate | Not available. | Oral Mouse >8 g/kg | |

^{0.9%} of the mixture consists of ingredient(s) of unknown toxicity.

Skin Corrosion/Irritation: May cause skin irritation.
Serious Eye Damage/Irritation: May cause eye irritation.

Respiratory or Skin

Sensitization: May cause skin and respiratory sensitization.

STOT-Single Exposure: Based on available data, the classification criteria are not met.

Carcinogenicity: This product is not classified as a carcinogen.

Germ Cell Mutagenicity: This product is not classified as a mutagen.

Reproductive Toxicity: Developmental: this product does not contain known

reproductive or developmental toxins.

Fertility: no known significant effects or critical hazards.

STOT-Repeated Exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Not expected to occur.

Other Information: Not available.

Trade Name: Generation Buffer



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SECTION 12: Ecological information Section

12.1 Toxicity

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic

environment.

| Ingredient Aquatic Toxicity | | |
|-----------------------------|---|--|
| | | |
| Maleic acid | 96 Hr LC50 Pimephales promelas: 5 mg/L [static] | |
| | 48 Hr EC50 Daphnia magna: 250 - 400 mg/L | |
| Neomycin sulfate | Not available. | |

Contains 0.9 % of components with unknown hazards to the aquatic environment.

12.2 Persistence and

degradability

Not available.

12.3 Bioaccumulative potential

Bioaccumulation: Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB

assessment

A <u>PBT</u> assessment has not yet been carried out under REACH for the constituents. However, there are no

indications that this product contains substances likely to be

classified as PBT

A <u>vPvB</u> assessment has not yet been carried out under REACH for the constituents. However, there are no

indications that this product contains substances likely to be

classified as vPvB.

12.6 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal Method: This material must be disposed of in accordance with

all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

SECTION 14: Transport information

14.1 UN number Not regulated.
14.2 UN proper shipping name Not applicable.
14.3 Transport hazard class(es) Not applicable.
14.4 Packing group Not applicable.
14.5 Environmental hazards Not applicable

14.6 Special precautions for user Do not handle until all safety precautions have been

read and understood.

Trade Name: Generation Buffer



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; as well as the EU Directives 67/548/EEC and 1999/45/EC and take into account the intended product use.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification

Acute toxicity 4 (Acute Tox. 4) Skin sensitization 1 (Skin Sens. 1) Respiratory sensitization 1 (Resp. Sens. 1)

Classification Procedure

Calculation method. Concentration limits. Concentration limits.

Relevant R-, H- and EUH- Phrases:

| H332 | Harmful | if inhaled. |
|------|---------|-------------|
|------|---------|-------------|

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Trade Name: Generation Buffer



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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- R42 May cause sensitization by inhalation.
- R43 May cause sensitisation by skin contact
- R22 Harmful if swallowed.
- R38 Irritating to skin.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.

Legend:

PBT - Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative CAS No - Chemical Abstracts Service Number EC No - European Commission Number REACH No - Registration, Evaluation, Authorisation and restriction of Chemicals Number STOT Specific target organ toxicity logK_{o/w} - Partition coefficient n-octanol/water BCF - Bioconcentration Factor

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet

Trade Name: Generation Buffer Product No: MS E-5616



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: PMSF

Product Code: MS E-5614

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: To be used as a component with the Plasma Renin Activity

(PRA) ELISA kit according to the instructions provided with the

kit.

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201 Contact email support@ldn.de

1.4 Emergency telephone number

Telephone Refer to Appendix A of the document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

| Hazard class | | Hazard Statement |
|-----------------------------------|------|--|
| Acute toxicity 3 (Acute Tox. 3) | H301 | Toxic if swallowed. |
| Skin corrosion 1B (Skin Corr. 1B) | H314 | Causes severe skin burns and eye damage. |
| Serious eye damage 1 (Eye Dam. 1) | H318 | Causes serious eye damage. |

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

| Hazard class | | R - Phrase |
|---------------|-----|---------------------------------|
| Toxic (T) | R25 | Toxic if swallowed. |
| Corrosive (C) | R34 | Causes burns. |
| | R41 | Risk of serious damage to eyes. |

2.2 Label elements

Labeling in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Hazard Pictogram:



Signal Word: Danger

Hazard Statement: H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precaution: Not applicable.

Prevention: P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

Response: P301+P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician.

P330 Rinse mouth.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with

water/shower.

P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Storage: P403+P233 Store in a well-ventilated place. Keep container

tightly closed.

Disposal: P501 Dispose of contents and container in accordance with all

local, regional, national and international regulations.

Additional Hazards: Not applicable.

2.3 Other hazards

PBT & vPvB: See section 12.5 for more detailed information on PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|-------------------|----------|-----------|----------------|-------|-------------------|
| | | | | | |
| Benzenemethane | | | | 60 - | Acute Tox. 3 H301 |
| sulfonyl fluoride | 329-98-6 | 206-350-2 | Not available. | 100 | Skin Cor. 1B H314 |



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Classification according to 67/548/EEC

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|-------------------|----------|-----------|----------------|-------|--------|
| | | | | | |
| Benzenemethane | | | | 60 - | T; R25 |
| sulfonyl fluoride | 329-98-6 | 206-350-2 | Not available. | 100 | C; R34 |

Full text of R-, H- and EUH- phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye: In case of contact, immediately flush eyes with plenty of water for

at least 15 minutes. If easy to do, remove contact lenses, if worn.

Get medical attention immediately.

Skin: Flush contaminated skin with plenty of water. Continue to rinse for

at least 20 minutes. Get medical attention if symptoms occur. Chemical burns must be treated promptly by a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Eye: Causes burns. Severe irritation, redness and pain. Symptoms may

include discomfort or pain, excess blinking and tear production,

with possible redness and swelling.

Skin: Causes burns. Symptoms may include redness, pain and blisters.

Inhalation: May be harmful by inhalation. Irritating to respiratory tract.

Vapours may cause drowsiness and dizziness.

Ingestion: Harmful if swallowed. May cause stomach distress, nausea or

vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Products of Combustion: May include, and are not limited to: oxides of carbon, halogenated

compounds.

5.3 Advice for firefighters

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full

Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes.

6.2 Environmental precautions

Keep out of drains, sewers, ditches, and waterways Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning up

Methods for Containment: Pick up large pieces, then place in a suitable container. Do not flush to

sewer or allow to enter waterways. Use appropriate Personal

Protective Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container.

Provide ventilation.

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTON 7: Handling and storage

7.1 Precautions for safe handling

Handling: Users should have a thorough understanding how to use this

product. Do not breathe gas/fumes/ vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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container with care. When using do not eat, drink or smoke. (See

section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Keep container tightly closed.

Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Store in an appropriate container. Unused chemicals should not be returned to the

container. (See section 10)

7.3 Specific end use(s)

End uses: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Ingredient | UK - Occupational Exposure Limits (TWA) | | |
|---------------------------------|---|--|--|
| | | | |
| Benzenemethanesulfonyl fluoride | Not available. | | |

8.2 Exposure controls

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of

dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear approved eye (properly fitted dust- or splash-proof chemical

safety goggles) / face (face shield) protection.

Skin Protection:

Hand Protection: Wear solvent resistant gloves.

Body Protection: Wear suitable protective clothing, including appropriate boots,

boot covers, overshoes, etc., as may be appropriate.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory

equipment.

General Health & Safety

Measures:

Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking.

Handle in accordance with good industrial hygiene and safety

Environmental Exposure Controls:

practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Not available. Color: Not available.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Odour: Not available. Odour Threshold: Not available.

Physical State: Solid.

pH: Not available.

Melting Point: \sim 92 °C (\sim 197.6 °F)

Boiling Point: Decomposes. Flash Point: Not available. **Evaporation Rate:** Not available. Not Flammable. Flammability: Lower Flammability/Explosive Limit: Not available. Upper Flammability/Explosive Limit: Not available. Vapor Pressure: Not available. Vapor Density: Not available. Relative Density: Not available. Not available. Solubility: Partition coefficient: n-octanol/water: Not available. Auto-ignition Temperature: Not available. Decomposition Temperature: Not available. Not available. Viscosity: **Explosive Properties:** Not available. Oxidizing Properties: Not available.

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reaction known under conditions of

normal use.

10.2 Chemical stability Stable under normal storage conditions.

10.3 Possibility of hazardous reactions No dangerous reaction known under conditions of

normal use.

10.4 Conditions to avoid Heat. Incompatible materials.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition May include, and are not limited to: oxides of carbon,

products halogenated compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Health Effects:



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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<u>Eye:</u> Causes burns. Severe irritation, redness and pain. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

<u>Skin:</u> Causes burns. Symptoms may include redness, pain and blisters. <u>Ingestion:</u> Harmful if swallowed. May cause stomach distress, nausea or vomiting.

<u>Inhalation:</u> May be harmful by inhalation. Irritating to respiratory tract. Vapours may cause drowsiness and dizziness.

Acute Toxicity:

| Ingredient | LC50 | LD50 |
|---|----------------|-------------------------|
| Decree of the control of the control of | Not available | Out May 200 |
| Benzenemethanesulfonyl fluoride | Not available. | Oral Mouse 200 mg/kg |

Skin Corrosion/Irritation: Causes burns.

Eye Damage/Irritation: Risk of serious damage to eyes.

Respiratory /Skin

Sensitization: Based on available data, the classification criteria are not met. STOT-Single Exposure: Based on available data, the classification criteria are not met.

Carcinogenicity: This product is not classified as a carcinogen.

Germ Cell Mutagenicity: This product is not classified as a mutagen.

Reproductive Toxicity: This product does not contain known reproductive or developmental

toxins.

Fertility, no known significant effects, or critical hazards.

STOT-Repeated

Exposure:

Based on available data, the classification criteria are not met.

Aspiration Hazard: Not expected to occur.

Other Information: Not available.

SECTION 12: Ecological information Section

12.1 Toxicity

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic

environment.

| Ingredient | Aquatic Toxicity | | |
|---------------------------------|------------------|--|--|
| | | | |
| Benzenemethanesulfonyl fluoride | Not available. | | |

Contains 100 % of components with unknown hazards to the aquatic environment.

12.2 Persistence and degradability Not available.

12.3 Bioaccumulative potential Bioaccumulation: Not available.

12.4 Mobility in soil Not available.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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12.5 Results of PBT and vPvB assessment

A PBT assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances

likely to be classified as PBT.

A vPvB assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances likely to be classified as vPvB.

12.6 Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal Method: This material must be disposed of in accordance with

all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

SECTION 14: Transport information

UN2928 14.1 UN number

14.2 UN proper shipping name Toxic solid, corrosive, organic, n.o.s.

(Benzenemethanesulfonyl fluoride)

14.3 Transport hazard class(es) 6.1(8)

П 14.4 Packing group

14.5 Environmental hazards Not available

14.6 Special precautions for user Do not handle until all safety precautions have been

read and understood.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC

Code

Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; as well as the EU Directives 67/548/EEC and 1999/45/EC and take into account the intended product use.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification

Acute toxicity 3 (Acute Tox. 3) Skin corrosion 1B (Skin Corr. 1B) Serious eye damage 1 (Eye Dam. 1)

Classification Procedure

Calculation method. Concentration limits. Concentration limits.

Relevant R-, H- and EUH- Phrases:

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

R25 Toxic if swallowed.

R34 Causes burns.

R41 Risk of serious damage to eyes.

Legend:

PBT - Persistent, Bioaccumulative and Toxic

vPvB - very Persistent and very Bioaccumulative

CAS No - Chemical Abstracts Service Number

EC No - European Commission Number

REACH No - Registration, Evaluation, Authorisation and restriction of Chemicals Number

STOT Specific target organ toxicity

 $logK_{o/w}$ - Partition coefficient n-octanol/water

BCF - Bioconcentration Factor



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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End of Safety Data Sheet



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: WASH BUFFER CONCENTRATE

Product Code: AA E-0030

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: To be used as a component with the Plasma Renin Activity

(PRA) ELISA kit according to the instructions provided with the

kit.

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201

Contact email support@ldn.de

1.4 Emergency telephone number

Telephone: Refer to Appendix A of this document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Hazard class Hazard Statement

EUH208 Contains 2-Methyl-3-isothiazolone.

Not controlled. May produce an allergic reaction.

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

Hazard class R - Phrase

Contains 2-Methyl-3-isothiazolone. May produce an

Not controlled. allergic reaction.

2.2 Label elements

Labeling in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Hazard Pictogram: Not applicable. Signal Word: Not applicable.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Hazard Statement:

Precaution:

Not applicable.

Prevention:

Response:

Not applicable.

Additional Hazards: EUH208 Contains 2-Methyl-3-isothiazolone. May produce

an allergic reaction.

2.3 Other hazards

PBT & vPvB: See section 12.5 for more detailed information on PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|---------------|----------|----------|----------------|-----------|-----------------------|
| | | | | • | |
| | | | | | Skin Corr. 1B H314 |
| | | | | | Acute Tox. 4 H332, |
| | | | | | H312, H302 |
| 2-Methyl-3- | 2682-20- | 220-239- | | | Skin Sens. 1 H317 |
| isothiazolone | 4 | 6 | Not available. | 0.1 - 1 | Aquatic. Acute 1 H400 |
| | | | | | Skin Irrit. 2 H315 |
| | | 201-064- | | | Eye Irrit. 2 H319 |
| Trometamol | 77-86-1 | 4 | Not available. | 0.5 - 1.5 | STOT SE 3 H335 |

Classification according to 67/548/EEC

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|------------------------------|---------------|---------------|----------------|---------|--|
| | | | | | |
| 2-Methyl-3- isothiazolone | 2682-20- 4 | 220-239- 6 | Not available. | 0.1 - 1 | C; R34 Xn; R20/21/22 R43 N; R50 |
| | | 201-064- | | 0.5 - | |
| Trometamol | 77-86-1 | 4 | Not available. | 1.5 | Xi R36/37/38 |

Full text of R-, H- and EUH- phrases: see section 16.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye: In case of contact, immediately flush eyes with plenty of water. If

easy to do, remove contact lenses, if worn. If eye irritation

persists: Get medical advice/attention.

Skin: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get immediate

medical advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye: May cause eye irritation. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness

and swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, edema,

drying, defatting and cracking of the skin. May produce an allergic

reaction.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea

or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Products of Combustion: May include, and are not limited to: oxides of carbon.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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5.3 Advice for firefighters

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full

Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes. Do not breathe vapour or mist.

6.2 Environmental precautions

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning up

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand,

vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective

Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Provide

ventilation.

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTON 7: Handling and storage

7.1 Precautions for safe handling

Handling: Users should have a thorough understanding how to use this

product. Do not breathe gas/fumes/ vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See

section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Keep container tightly closed

and in a well-ventilated place. Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Unused chemicals should not be returned to the container.

(See section 10)

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

7.3 Specific end use(s)

End uses: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Ingredient | UK - Occupational Exposure Limits (TWA) | | |
|--------------------------|---|--|--|
| 2 Mathed 2 inathinantan | Not available | | |
| 2-Methyl-3-isothiazolone | Not available. | | |
| Trometamol | Not available. | | |

8.2 Exposure controls

Engineering Controls: Use ventilation adequate to keep exposures (airborne

levels of dust, fume, vapor, etc.) below recommended

exposure limits.

Personal Protective Equipment <u>Eye/Face protection</u>: Wear approved eye (properly fitted

dust- or splash-proof chemical safety goggles) / face (face

shield) protection.

Skin Protection:

Hand Protection: Wear solvent resistant gloves.
Body Protection: Wear suitable protective clothing, including appropriate boots, boot covers, overshoes, etc.,

as may be appropriate.

Respiratory Protection: In case of insufficient ventilation,

wear suitable respiratory equipment.

General Health & Safety Measures: Do not eat, smoke or drink where material is handled,

processed or stored. Wash hands carefully before eating

or smoking.

Environmental Exposure Controls: Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Not available.

Color: Not available.

Odour: Not available.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.Melting Point: Not available.Boiling Point: Not available.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Flash Point: Not available. **Evaporation Rate:** Not available. Not Flammable. Flammability: Lower Flammability/Explosive Limit: Not available. Upper Flammability/Explosive Limit: Not available. Vapor Pressure: Not available. Not available. Vapor Density: Relative Density: Not available. Not available. Solubility: Partition coefficient: n-octanol/water: Not available. Auto-ignition Temperature: Not available. **Decomposition Temperature:** Not available. Viscosity: Not available. Not available. **Explosive Properties:** Oxidizing Properties: Not available.

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reaction known under conditions of

normal use.

10.2 Chemical stability Stable under normal storage conditions.

10.3 Possibility of hazardousNo dangerous reaction known under

reactions

No dangerous reaction known under conditions of

normal use.

10.4 Conditions to avoid Heat. Incompatible materials.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition

products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Health Effects:

Eye: May cause eye irritation. Symptoms may include

discomfort or pain, excess blinking and tear

production, with marked redness and swelling of the

conjunctiva.

Skin: May cause skin irritation. Symptoms may include

redness, edema, drying, defatting and cracking of the

skin. May produce an allergic reaction.

Ingestion: May be harmful if swallowed. May cause stomach

distress, nausea or vomiting.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

| Ingredient | LC50 | LD50 |
|--------------------------|----------------|---------------------|
| | | |
| 2-Methyl-3-isothiazolone | Not available. | Not available. |
| Trometamol | Not available. | Oral Rat 5900 mg/kg |

2.2 % of mixture consists of ingredient(s) of unknown toxicity.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation: Based on available data, the classification criteria are not met.

Respiratory or Skin

Sensitization: May produce an allergic reaction.

STOT-Single Exposure: Based on available data, the classification criteria are not met.

Chronic Health Effects:

Carcinogenicity: This product is not classified as a carcinogen.

Germ Cell Mutagenicity: This product is not classified as mutagen.

Reproductive Toxicity:

Developmental: This product does not contain known reproductive or

developmental toxins.

Fertility: No known significant effects or critical hazards.

STOT-Repeated Exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Not expected to occur.

Other Information: Not available.

SECTION 12: Ecological information Section

12.1 Toxicity

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic

environment.

| Ingredient | Aquatic Toxicity |
|--------------------------|------------------|
| 2-Methyl-3-isothiazolone | Not available. |
| Trometamol | Not available. |

99.2% of mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Bioaccumulation: Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

PBT results: A PBT assessment has not yet been carried out under REACH

for the constituents. However, there are no indications that this product contains substances likely to be classified as PBT.

vPvB results: A vPvB assessment has not yet been carried out under REACH

for the constituents. However, there are no indications that this product contains substances likely to be classified as

vPvB.

12.6 Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal Method: This material must be disposed of in accordance with

all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

SECTION 14: Transport information

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Do not handle until all safety precautions have been read and understood.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; as well as the EU Directives 67/548/EEC and 1999/45/EC and take into account the intended product use.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Relevant R-, H- and EUH- Phrases:

| H314 | Causes severe | skin bur | ns and e | ye damage. |
|------|---------------|----------|----------|------------|
|------|---------------|----------|----------|------------|

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R34 Causes burns.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R36/37/38 Irritating to eyes, respiratory system and skin.

Legend:

PBT - Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative CAS No - Chemical Abstracts Service Number EC No - European Commission Number

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

REACH No - Registration, Evaluation, Authorisation and restriction of Chemicals Number

STOT Specific target organ toxicity $log K_{o/w}$ - Partition coefficient n-octanol/water BCF - Bioconcentration Factor

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet

Trade Name: Wash Buffer Concentrate



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : TMB SUBSTRATE
Product code : MS E-5655
Product form : Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Main use category : Industrial use

Use of the substance/mixture : To be used as a component with ELISA kits according to

the instructions provided with the kit.

Restrictions on use : For laboratory use only

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201

Contact email support@ldn.de

1.4 Emergency telephone number

Telephone Number: Refer to Appendix A of this document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified.

Adverse physicochemical, human health and environmental effects No additional information available.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH-statements

2.3 Other hazards

Other hazards not contributing to the classification

: Contains oxidising substance(s) at <0.5%.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

| Name | Product Identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------|--|
| 2-Pyrrolidinone | (CAS-No.) 616- 45-5 (EC-No.) 210- 483-1 | 1 - 6 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| Urea, compound with hydrogen peroxide (H2O2) (1:1) | (CAS-No.) 124- 43-6 (EC-No.) 204- 701-4 | < 0.4 | Ox. Sol. 3, H272 Skin Irrit. 2, H315 Eye Dam. 1, H318 |

Full text of H-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you

feel unwell.

First-aid measures after skin contact

: If skin irritation occurs: Wash skin with mild soap and water. Obtain

medical attention if irritation persists.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention.

First-aid measures after ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel

unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

: May cause irritation to the respiratory tract.

Symptoms/effects after skin contact Symptoms/effects

: May cause skin irritation. Repeated exposure may cause skin dryness

after eye contact

May cause eye irritation. Symptoms may include discomfort or pain,

excess blinking and tear production, with possible redness and

Symptoms/effects after ingestion

: May be harmful if swallowed. May cause gastrointestinal irritation,

nausea, vomiting and diarrhea.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable : Use extinguishing media appropriate for surrounding fire.

extinguishing media

Unsuitable : None known.

extinguishing media

5.2 Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of

carbon. Contains oxidising substance(s) at <0.5%.

5.3 Advice for firefighters

firefighting

Protection during : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker

gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard

area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available.

6.1.2. For emergency responders

No additional information available.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3 Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or

other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended

personal protective equipment.

Methods for cleaning : Sweep or shovel spills into appropriate container for disposal. Provide

p ventilation. Flush contaminated areas with plenty of water.

6.4 Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTON 7: Handling and storage

7.1 Precautions for safe handling



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Precautions for safe

handling

: Avoid contact with eyes, skin and clothing. Avoid breathing

dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Provide adequate ventilation. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as

required.

Hygiene measures

Wash contaminated clothing before reuse. Always wash hands after

handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store in correctly labelled container. Keep away from food, drink and animal feeding stuffs. The TMB Substrate is sensitive to light and should always be stored in

dark bottles away from direct sunlight.

7.3 Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available.

8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid Appearance : Liquid

Colour : Clear/ light blue
Odour : Characteristic
Odour threshold : No data available

pH : 3.1 – 3.5

Relative evaporation rate : No data available

(butylacetate=1)

Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available Flash point : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Not flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available : Soluble in water Solubility Partition coefficient n-octanol/water : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under normal conditions of use.

10.4 Conditions to avoid

Incompatible materials. Extreme temperatures.

10.5 Incompatible materials

Combustible materials. Strong oxidizing agents.

10.6 Hazardous decomposition products

May include, and are not limited to: oxides of carbon.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity : Not classified.
(dermal)

Acute toxicity : Not classified. (inhalation)

| 2-Pyrrolidinone (616-45-5) | |
|----------------------------|-------------------------------|
| LD50 oral rat | 328 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | > 80 ppm (Exposure time: 8 h) |

Skin corrosion/irritation : Not classified.

pH: 3.1 - 3.5

Additional information : Based on available data, the classification criteria are not

met.

Serious eye damage/irritation : Not classified.

pH: 3.1 - 3.5

Additional information : Based on available data, the classification criteria are not

met.

Respiratory or skin sensitisation : Not classified.

Additional information : Based on available data, the classification criteria are not

met.

Germ cell mutagenicity : Not classified.

Additional information : Based on available data, the classification criteria are not

met

Carcinogenicity : Not classified.

Additional information : Based on available data, the classification criteria are not

met.

Reproductive toxicity : Not classified.

Additional information : Based on available data, the classification criteria are not

met.

STOT-single exposure : Not classified.

Additional information : Based on available data, the classification criteria are not

met.

STOT-repeated exposure : Not classified.

Additional information : Based on available data, the classification criteria are not

met.

Aspiration hazard : Not classified.

Additional information : Based on available data, the classification criteria are not

met

Other information : Likely routes of exposure: ingestion, inhalation, skin and

eye.



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 12: Ecological information Section

12.1 Toxicity

Ecology - general Unknown hazards to the aquatic

environment (CLP) Hazardous to the aquatic environment,

short-term (acute) Hazardous to the aquatic environment, long-term (chronic) : May cause long-term adverse effects in the aquatic environment.: Contains 0.4 % of components with unknown hazards to the aquatic

environment.

: Not classified.

: Not classified.

| 2-Pyrrolidinone (616-45-5) | |
|----------------------------|---|
| LC50 fish 1 | 4600 - 10000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| EC50 72h algae (1) | 250 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h algae (1) | 84 mg/l (Species: Desmodesmus subspicatus) |

12.2 Persistence and degradability

| TMB Substrate | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3 Bioaccumulative potential

| TMB Substrate | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| 2-Pyrrolidinone (616-45-5) | |
|---------------------------------------|-----------------|
| Partition coefficient n-octanol/water | -0.71 (at 25°C) |

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

Additional : No other effects known. information

SECTION 13: Disposal considerations

13.1 Waste treatment methods



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national

regulations. Do not reuse container. Recycle empty containers where $% \left(1\right) =\left(1\right) \left(1\right)$

allowed.

SECTION 14: Transport information

In accordance with ADR.

14.1 UN number

UN-No. (ADR) : Not regulated

14.2 UN proper shipping name

Proper Shipping : Not regulated

Name (ADR)

14.3 Transport hazard class(es)

ADR

Transport hazard

: Not regulated

class(es) (ADR)

14.4 Packing group

Packing group (ADR) : Not regulated

14.5 Environmental hazards

Dangerous for the

No

environment

Other information : No supplementary information available.

14.6 Special precautions for user

Special transport

: Do not handle until all safety precautions have been read and

precautions understood.

Overland transport : Not regulated.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1.EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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15.1.2. National regulations

No additional information available.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

16.1. Abbreviations and acronyms

°C - Degrees Celsius

°F - Degrees Fahrenheit

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH - American Conference of Governmental Industrial Hygienists

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

BEI - Biological Exposure Index

CAS - Chemical Abstracts Service

CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

cP – centipoise (unit of dynamic viscosity)

cSt - centistokes (unit of kinematic viscosity)

DNEL - Derived No-effect Level

EC50 – Half maximal effective concentration

ECHA - European Chemicals Agency

EC-No. - European Community number

EU - European Union

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

h - Hours

IATA - International Air Transport Association

IDLH – Immediately Dangerous to Life or Health

IMDG - International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

kPa - kilopascal

Kow - Octanol-Water Partition Coefficient

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

mg/l - Milligram per liter

mg/kg - Milligram per kilogram

mg/m3 – Milligram per cubic meter

Min - Minutes

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

N.O.S. - Not Otherwise Specified

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

ppm - Parts per million

PVC - Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

Version 07 Revision: 2024-09-05

TLV – Threshold Limit Value TWA – Time Weighted Average UN – United Nations vPvB - Very Persistent and Very Bioaccumulative

16.2. Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

16.3. Full text of H- and EUH-statements:

| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
|---------------------|---|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Ox. Sol. 3 | Oxidising Solids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| EUH210 | Safety data sheet available on request. |

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: STOPPING SOLUTION

Product Code: MS E-5680

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: To be used as a component with the Plasma Renin Activity

ELISA kit according to the instructions provided with the kit.

1.3 Details of the supplier of the safety data sheet

Name LDN Labor Diagnostika Nord GmbH & Co. KG

Address Am Eichenhain 1

48531 Nordhorn, Germany

Telephone +49 (0)5921-8197 0 (Mo-Fr 8:00-16:00)

Telefax +49 (0)5921 8197 201

Contact email support@ldn.de

1.4 Emergency telephone number

Telephone Number: Refer to Appendix A of this document for emergency telephone

numbers based on your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labeling and Packaging Regulation (EC) No 1272/2008 (CLP)

Hazard class: Hazard Statement:

Skin irritation 2 H315 Causes skin irritation.
Serious eye irritation 2 H319 Causes serious eye irritation.

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

Hazard class: R - Phrase:

Irritant (Xi) R36/38 Irritating to eyes and skin.

2.2 Label elements

Labeling by the Classification Labeling and Packaging Regulation (EC) No 1272/2008

Hazard Pictogram:



Trade Name: Stopping Solution



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Signal Word: Warning

Hazard Statement: H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precaution: Not applicable.

Prevention: P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P264 Wash exposed skin thoroughly after handling

Response:

P302 + P352 + P332 + P313 -IF ON SKIN: Wash with plenty of

soap and water. If skin irritation occurs: Get medical

advice/attention.

P362 – Take off contaminated clothing and wash before reuse. P305 + P351 + P338 + P337 + P313 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Storage: Not applicable.

Disposal: P501 Dispose of contents and container in accordance with all

local, regional, national and international regulations.

Additional Hazards: Not applicable.

2.3 Other hazards

PBT & vPvB: See section 12.5 for more detailed information on PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|---------------|-----------|-----------|----------------|--------|---|
| Sulfuric acid | 7664-93-9 | 231-639-5 | Not available. | 9 - 10 | Eye Irrit. 2; H319: 5% ≤ C < 15% Skin Irrit. 2; H315: 5% ≤ C < 15% Skin Corr. 1A; H314: C ≥ 15% |

Trade Name: Stopping Solution



According to Regulation (EC) No 1907/2006 (modified by regulation EU No. 878/2020)

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Classification according to 67/548/EEC

| Ingredient | CAS No | EC No | REACH No | Wt. % | Class |
|---------------|-----------|-----------|----------------|--------|--|
| Sulfuric acid | 7664-93-9 | 231-639-5 | Not available. | 9 - 10 | R35; C ≥ 15 % C Xi; R36/38; 5 % ≤ C < 15 % |

Full text of R-, H- and EUH- phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye: In case of contact, immediately flush eyes with plenty of water for

at least 15 minutes. If easy to do, remove contact lenses, if worn.

Get medical advice/attention.

Skin: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Get medical advice/attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an

unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye: Cause eye irritation. Symptoms may include discomfort or pain,

excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

Skin: Cause skin irritation. Symptoms may include redness, edema,

drying, defatting and cracking of the skin.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea

or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Appropriated: Use water spray or other suitable agent on fires adjacent to

nonleaking tanks or intact acid containers. If only a small amount of combustibles is present, smother fire with dry chemicals. Small fire: Dry powder or CO2. Move containers from the fire

area, if it can be done without risk.

Large fire: Flood fire area with large quantities of water, knocking

down vapors with water fog. Cool containers with flooding quantities of water until well after the fire is out. Do not get water inside containers. Withdraw immediately in case of rising sound

from venting safety devices or discoloration of the tank.

Non appropriated: Do not use solid water streams near ruptured tanks or spills of

sulfuric acid.

5.2 Special hazards arising from the substance or mixture

Products of Combustion: May include and are not limited to: oxides of carbon.

Acid reacts violently with water and can spatter acid onto

personnel.

Reacts with most metals, especially when diluted: Hydrogen gas

release, which is

extremely flammable and explosive. Risk of explosion if acid

combines with water,

organic materials or base solutions in enclosed spaces. Mixing

acids of different

strengths/concentrations can also pose an explosive risk in an

enclosed space/container.

5.3 Advice for firefighters

Protection of Firefighters: Add chemical safety goggles if eye protection is not provided.

Wear full protective

clothing.

Evacuate personnel to a safe area. Keep personnel removed and

upwind of fire.

Wear full protective clothing. Neutralize run-off with lime, soda

ash, to prevent

corrosion of metals and formation of hydrogen gas. Wear self-

contained breathing

apparatus if fumes or mists are present.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes. Do not breathe vapour or mist.

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6.2 Environmental precautions

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning up

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand,

vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective

Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Provide

ventilation.

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTON 7: Handling and storage

7.1 Precautions for safe handling

Handling: Users should have a thorough understanding how to use this

product. Do not breathe gas/fumes/ vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See

section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Keep container tightly closed.

Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Store in an appropriate

container. Unused chemicals should not be returned to the container.

(See section 10)

7.3 Specific end use(s)

End uses: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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| Ingredient | UK - Occupational Exposure Limits (TWA) |
|---------------|---|
| Sulfuric acid | 0.05 mg/m³ TWA (mist) |

8.2 Exposure controls

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of

dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear approved eye (properly fitted dust- or splash-proof chemical

safety goggles) / face (face shield) protection.

Skin Protection:

Hand Protection: Wear solvent resistant gloves.

Body Protection: Wear suitable protective clothing, including appropriate boots, boot

covers, overshoes, etc., as may be appropriate.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory

equipment.

General Health & Safety

Measures:

Do not eat, smoke or drink where material is handled, processed or

stored. Wash hands carefully before eating or smoking.

Environmental Exposure

Controls:

Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Not available.

Color: Not available.

Odour: Not available.

Odour Threshold: Not available.

Physical State: Liquid. pH: 0

Melting Point:

Boiling Point:

Flash Point:

Evaporation Rate:

Flammability:

Lower Flammability/Explosive Limit:

Not available.

Not available.

Not Flammable.

Not available.

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Not available. Upper Flammability/Explosive Limit: Not available. Vapor Pressure: Vapor Density: Not available. Not available. Relative Density: Not available. Solubility: Partition coefficient: n-octanol/water: Not available. Auto-ignition Temperature: Not available. Decomposition Temperature: Not available. Not available. Viscosity: Not available. **Explosive Properties:** Oxidizing Properties: Not available.

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Heat. Incompatible materials.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Likely Routes of Exposure:

Skin contact, eye contact, inhalation, and ingestion.

Acute Health Effects:

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Eye: Cause eye irritation. Symptoms may include discomfort or pain, excess

blinking and tear production, with marked redness and swelling of the

conjunctiva.

Skin: Cause skin irritation. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or

vomiting.

Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

| Ingredient | LC50 | LD50 |
|---------------|--|---------------------|
| Sulfuric acid | Inhalation Mouse 320 mg/m³ 2 h Inhalation Rat 510 mg/m³ 2 h | Oral Rat 2140 mg/kg |
| | Inhalation Rat 347 ppm 1 h | |

Skin Corrosion/Irritation: Causes skin irritation.
Serious Eye Damage/Irritation: Causes eye irritation.

Respiratory or Skin Sensitization: Based on available data, the classification criteria are not

met.

STOT-Single Exposure: Based on available data, the classification criteria are not

met.

Chronic Health Effects:

Carcinogenicity: This product is not classified as a carcinogen.

Germ Cell Mutagenicity: This product is not classified as a mutagen.

Reproductive Toxicity:

Developmental: This product does not contain known reproductive or

developmental toxins.

Fertility: No known significant effects or critical hazards.

STOT-Repeated Exposure: Based on available data, the classification criteria are not

met.

Aspiration Hazard: Not expected to occur.

Other Information: Not available.

SECTION 12: Ecological information Section

12.1 Toxicity

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic

environment.

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| Ingredient | Aquatic Toxicity |
|---------------|------------------|
| Sulfuric acid | Not available. |

Contains 100% of components with unknown hazards to the aquatic environment.

12.2 Persistence and

degradability

12.3 Bioaccumulative potential

Not available.

Bioaccumulation: Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

<u>PBT results:</u> A PBT assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances

likely to be classified as PBT.

<u>vPvB results:</u> A vPvB assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains

substances likely to be classified as vPvB.

12.6 Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not use the empty containers.

Waste disposal according to the Directives EC

75/442/EEC and 91/689/EEC in their latest versions by

incineration or dispose of waste material.

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

13.2. Waste code numbers/Waste

identification

Not available.

SECTION 14: Transport information

14.1 UN number UN2796

14.2 UN proper shipping nameBattery fluid, acid: sulfuric acid with no more than

51% acid, or Sulfuric acid with no more than 51%

acid

8

14.3 Transport hazard class(es)

14.4 Packing group II

14.5 Environmental hazards Not available

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14.6 Special precautions for user

Do not handle until all safety precautions have been read and understood.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Not available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; as well as the EU Directives 67/548/EEC and 1999/45/EC and take into account the intended product use.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification

Acute toxicity 3 (Acute Tox. 3) Skin irritation 2 (Skin Irrit. 2) Serious eye irritation 2 (Eye Irrit. 2)

Classification Procedure

Calculation method.
Concentration limits.
Concentration limits.

Relevant R-, H- and EUH- Phrases:

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P342+ P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

R20 Harmful by inhalationR36/38 Irritating to eyes and skin.R35 Causes severe burns

Legend:

PBT - Persistent, Bioaccumulative and Toxic vPvB - very Persistent and very Bioaccumulative CAS No - Chemical Abstracts Service Number EC No - European Commission Number REACH No - Registration, Evaluation, Authorisation and restriction of Chemicals Number STOT Specific target organ toxicity logK $_{\text{O/W}}$ - Partition coefficient n-octanol/water BCF - Bioconcentration Factor

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet

Trade Name: Stopping Solution



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| Appendix A: Emergency Telephone Number | rs |
|--|----|
|--|----|

| Austria: | +431 406 43 43 |
|---|---|
| Belgium: | +32 070 245 245 |
| Bulgaria: | +359 2 9154 409 |
| Czech Republic: | +420 224 919 293, +420 224 915 402 |
| Denmark, the Faroe Islands, Greenland and Danish ships: | +45 82 12 12 12 |
| Estonia: | Emergency number: 112 (7/7d, 24/24H), Poison centre number: - nationally: 16662, - from abroad: +372 626 93 90 (from Monday 9AM to Saturday 9AM) |
| United Kingdom: | NHS Direct: +44 0845 4647 |
| Finland: | +358 (09)471 977 (direct), +358 (09) 4711 (exchange) |
| France: | + 33 (0)1 45 42 59 59 |
| Greece: | Contact local poison centre or emergency medical centre |
| Hungary: | +36 80 20 11 99 |
| Iceland | Contact local poison centre or emergency medical centre |
| Ireland | +353 01 809 2166 (7/7d, 8 AM to 10 PM) |
| Italy | Contact local poison centre or emergency medical centre |
| Latvia | +371 67042473 |
| Liechtenstein | Contact local poison centre or emergency medical centre |
| Lithuania | +370 5 236 20 52 or +370 687 53378 |
| Luxembourg | Contact local poison centre or emergency medical centre |
| Malta | +356 2545 4030 |
| Netherlands | Contact local poison centre or emergency medical centre |
| Norway | +47 22 59 13 00 |
| Poland | Contact local poison centre or emergency medical centre |
| Portugal | +351 808 250 143 |
| Romania | +40 021 318 36 06 (from 8AM to 15PM) |
| Slovakia | +421 2 5477 4166 |
| Slovenia | Contact local poison centre or emergency medical centre |
| Spain | + 34 91 562 04 20 |
| Sweden | 112 (7/7d, 24/24H) in case of emergency poisoning, +46 08 331231 (from Monday to Friday from 9AM to 17PM) for other questions concerning acute poisonings |
| Germany-Berlin | 030/19240 |
| Germany-Bonn | 0228/19240 und 0228/287-33211 |
| Germany-Erfurt | 0361/730 730 |
| Germany-Freiburg | 0361/730 730 |
| Germany-Göttingen | 0551/19 240 |
| Germany-Homburg | 06841/19240 (Notfall) 06841/1628336 (Sekretariat) |
| Germany-Mainz | 06131/19240; oder 0700-GIFTINFO; Infoline: 06131-23 24 66 |
| | |



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| Germany-München | 089/19240 |
|------------------|---|
| Germany-Nürnberg | Giftnotruf: 0911/398-2451, Tel.: 0911/398 2665, Fax: 0911/398 2205 |