| 07/12/2022 | Kit Components | |
|--------------|------------------------------------|--|
| Product code | Description | |
| 7033400 | (MPure-32) Magbeads FastRNA Kit | |
| Components: | | |
| 7033404 | 96-Well Reagent Plates | |
| 7033801 | Proteinase K | |
| 7033302 | Protease Dissolve Buffer | |
| 7033401 | DNase I | |
| 7033402 | Buffer RTL | |
| 7033403 | Buffer MCB | |
| 7033906 | 8-strip A (Cover for Magnetic Rod) | |
| 7033907 | Elution Tubes | |



Printing date 07/12/2022

Reviewed on 07/12/2022

- **1 Identification**
- · Product identifier
- · Trade name: 96-Well Reagent Plates
- Article number: 7033404
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapor.



Acute Tox. 4H302 Harmful if swallowed.Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.

- · Label elements
- *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



· Signal word Warning

Hazard-determining components of labeling: Guanidine Hydrochloride
Hazard statements Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

(Contd. on page 2)

Printing date 07/12/2022

EINECS: 200-578-6 RTECS: KQ 6300000 Reviewed on 07/12/2022

Trade name: 96-Well Reagent Plates

| <pre>(Cond. of page 1) . Preautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Was thoroughly after handling. D on teat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. Specific treatment (see on this labe)). If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in exes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Explose for e 0 Reactivity = 0 IMIS-ratings (scale 0 - 4) Explose for e 0 Reactivity = 0 IMIS-ratings Reactivity = 0 Cher hacards Cher hacard</pre> | | | |
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| · Chemical characterization: Mixtures | · Description: Mixture: | consisting of the following components. | |
| • Chemical characterization: Mixtures • Description: Mixture: consisting of the following components. | · Dangerous componer | nts: | |
| | | | 10-50% |
| Description: Mixture: consisting of the following components. Dangerous components: | | Guandane Hydrochtor de | 10-5070 |
| • Description: Mixture: consisting of the following components. • Dangerous components: CAS: 50-01-1 Guanidine Hydrochloride 10-50% | | | 100 |
| • Description: Mixture: consisting of the following components. • Dangerous components: • CAS: 50-01-1 EINECS: 200-002-3 Guanidine Hydrochloride | CAS: 64-17-5 | ethyl alcohol | 10% |

(Contd. on page 3)

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Trade name: 96-Well Reagent Plates

(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- General information:
- Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.
- After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult a Doctor.

- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically, dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

| · PAC-1: | | |
|------------|---------------|------------------------|
| | ethyl alcohol | 1,800 ppm |
| 26628-22-8 | Sodium Azide | $0.026 mg/m^3$ |
| · PAC-2: | | |
| 64-17-5 | ethyl alcohol | 3300* ppm |
| 26628-22-8 | Sodium Azide | 0.29 mg/m ³ |
| · PAC-3: | | |
| 64-17-5 | ethyl alcohol | 15000* ppm |
| | | (Contd. on page 4) |

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26628-22-8 Sodium Azide

(Contd. of page 3) $5.3 mg/m^3$

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Avoid direct contect with skin. Use protective clothing including gloves, lab coat, face/eye protection. • Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30°C
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Further information about storage conditions:
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

64-17-5 ethyl alcohol

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1000 ppm

A3

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 5)

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· Material of gloves

(Contd. of page 4)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

| · Information on basic physical and | chemical properties | |
|----------------------------------------|--------------------------------------------------------------------------|---------|
| · General Information | | |
| · Appearance: Form: | According to product specification | |
| Color: | According to product specification According to product specification | |
| · Odor: | Indeterminate | |
| • Odor: • Odor threshold: | Not determined. | |
| | | |
| · pH-value: | Not determined. | |
| · Change in condition | | |
| Boiling point/Boiling range: | Undetermined. | |
| · Flash point: | Not applicable. | |
| · Flammability (solid, gaseous): | Not applicable. | |
| · Decomposition temperature: | Not determined. | |
| · Auto igniting: | Product is not selfigniting. | |
| · Danger of explosion: | Not determined. | |
| · Explosion limits: | | |
| <i>Lower:</i> | Not Applicable | |
| Upper: | Not Applicable | |
| · Vapor pressure: | Not Applicable | |
| · Density: | Not Applicable | |
| · Relative density | Not determined. | |
| · Vapor density | Not determined. | |
| · Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | Not Determined | |
| · Water: | Soluble. | |
| · Partition coefficient (n-octanol/wat | ter): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| | (Contd | on page |

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Trade name: 96-Well Reagent Plates

| | | (Contd. of page |
|---------------------|--------------------------------------------|-----------------|
| · Solvent content: | | |
| Organic solvents: | 10.0 % | |
| Water: | 59.8 % | |
| VOC content: | 10.00 % | |
| | 100.0 g/l / 0.83 lb/gal | |
| Solids content: | 30.2 % | |
| • Other information | No further relevant information available. | |

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid
- No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 1,667 mg/kg

50-01-1 Guanidine Hydrochloride

Oral LD50 500 mg/kg (ATE)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

64-17-5 ethyl alcohol

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 7)

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US —

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Trade name: 96-Well Reagent Plates

(Contd. of page 6)

- · OSHA-Ca (Occupational Safety & Health Administration)
- None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:
 - Can not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

| UN-Number DOT, ADR, IMDG, IATA | UN1170 | |
|-----------------------------------|------------------------------|--|
| UN proper shipping name | | |
| DOT | Ethanol | |
| ADR | 1170 ETHANOL (ETHYL ALCOHOL) | |
| IMDG | ETHANOL (ETHYL ALCOHOL) | |
| IATA | ETHANOL | |
| Transport hazard class(es) | | |
| DOT | | |
| RAMINES LICIS | | |
| | | |

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Reviewed on 07/12/2022

Trade name: 96-Well Reagent Plates

| | (Contd. of page |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Label | 3 |
| ADR, IMDG, IATA | |
| | |
| Class | 3 Flammable liquids |
| Label | 3 |
| Packing group | |
| DOT, ADR, IMDG, IATA | 111 |
| Environmental hazards: | Not applicable. |
| Special precautions for user | Warning: Flammable liquids |
| Hazard identification number (Kemler code) | |
| EMS Number: Stowage Category | F-E,S-D A |
| | /1 |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| Transport/Additional information: | |
| DOT | |
| Quantity limitations | On passenger aircraft/rail: 60 L |
| | On cargo aircraft only: 220 L |
| ADR | |
| Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| IMDG | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| | |
| UN "Model Regulation": | UN 1170 ETHANOL (ETHYL ALCOHOL), 3, III |

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• **TSCA** (Toxic Substances Control Act): All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

(Contd. on page 9)

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· Proposition 65

Reviewed on 07/12/2022

Trade name: 96-Well Reagent Plates

(Contd. of page 8)

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· Chemicals known to cause cancer: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5 ethyl alcohol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

64-17-5 ethyl alcohol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling: *Guanidine* Hydrochloride · Hazard statements Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. Specific treatment (see on this label). If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention.

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Trade name: 96-Well Reagent Plates

(Contd. of page 9)

Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Contact:

- · Date of preparation / last revision 07/12/2022 / -
- Abbreviations and acronyms: Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A



Printing date 07/12/2022

Reviewed on 07/12/2022

- **1** Identification
- · Product identifier
- · Trade name: Proteinase K
- Article number: 7033801
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture



Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

- Hazard-determining components of labeling: Proteinase K
 Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling.

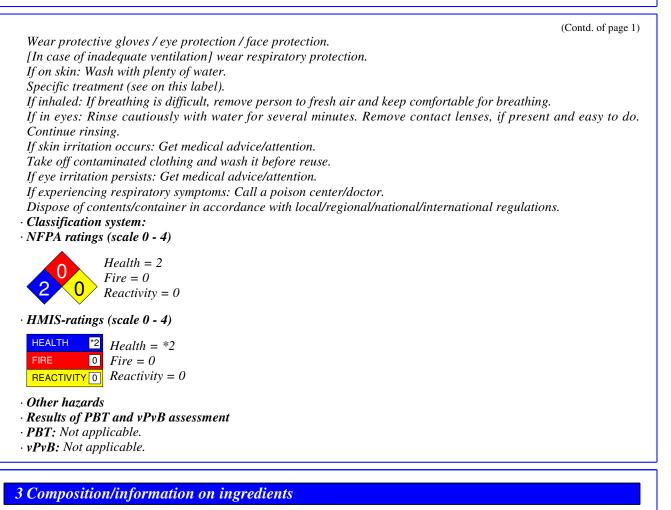
(Contd. on page 2)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Proteinase K



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· Chemical characterization: Mixtures
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· Description: Mixture: consisting of the following components.

· Dangerous components:

CAS: 39450-01-6 Proteinase K EINECS: 254-457-8

4 First-aid measures

- · Description of first aid measures
- · General information:

Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.

- After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- · Information for doctor

· Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Proteinase K

• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

 For personal protection see section 8.
 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically, dispose contaminated material as waste according to Section 13.

- Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

• PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes. Prevent formation of aerosols.

- Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities

· Storage: 15-30°C

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Further information about storage conditions:

(Contd. on page 4)

(Contd. of page 2)

US

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Reviewed on 07/12/2022

Trade name: Proteinase K

(Contd. of page 3)

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see Section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:
 - Form: Color:

According to product specification According to product specification

(Contd. on page 5)

Printing date 07/12/2022

Reviewed on 07/12/2022

| Trade | name: | Proteinase | K |
|-------|-------|------------|---|
| | | | |

| | (Contd. of pag |
|-------------------------------------|--------------------------------------------|
| Odor: | Indeterminate |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Boiling point/Boiling range: | Undetermined. |
| Flash point: | Not applicable. |
| Flammability (solid, gaseous): | Not applicable. |
| Decomposition temperature: | Not determined. |
| Auto igniting: | Product is not selfigniting. |
| Danger of explosion: | See section 10 |
| Explosion limits: | |
| Lower: | Not Applicable |
| Upper: | Not Applicable |
| Vapor pressure: | Not Applicable |
| Density: | Not Applicable |
| Relative density | Not determined. |
| Vapor density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with | Not Determined |
| Water: | Soluble. |
| Partition coefficient (n-octanol/wa | ater): Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |
| Solids content: | 10.0 % |
| Other information | No further relevant information available. |

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Proteinase K

(Contd. of page 5)

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through inhalation.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Can not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

(Contd. on page 7)

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Reviewed on 07/12/2022

Trade name: Proteinase K

(Contd. of page 6)

| UN-Number | |
|-------------------------------------------------|-----------------|
| DOT, ADR, IMDG, IATA | Not regulated |
| UN proper shipping name DOT, ADR, IMDG, IATA | Not regulated |
| Transport hazard class(es) | |
| DOT, ADR, IMDG, IATA | |
| Class | Not regulated |
| Packing group | |
| DOT, ADR, IMDG, IATA | Not regulated |
| Environmental hazards: | Not applicable. |
| Special precautions for user | Not applicable. |
| Transport in bulk according to Annex II of | f |
| MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

(Contd. on page 8)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Proteinase K

(Contd. of page 7)

• *TLV* (*Threshold Limit Value*) None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling:

- Proteinase K
- · Hazard statements
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wash thoroughly after handling.
- *Wear protective gloves / eye protection / face protection.*
- [In case of inadequate ventilation] wear respiratory protection.
- If on skin: Wash with plenty of water.
- Specific treatment (see on this label).
- If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- If eye irritation persists: Get medical advice/attention.
- If experiencing respiratory symptoms: Call a poison center/doctor.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Quality Control Dept.
- · Contact:
- · Date of preparation / last revision 07/12/2022 / -
- Abbreviations and acronyms: Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1: Respiratory sensitisation – Category 1



Page 1/7

Safety Data Sheet acc. to OSHA HCS

Printing date 07/12/2022

Reviewed on 07/12/2022

- **1** Identification
- · Product identifier
- · Trade name: Protease Dissolve Buffer
- · Article number: 7033302
- · Molecular Formula N/A
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

• *Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized System (GHS).*

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- Hazard statements Void
- · Classification system:
- · NFPÅ ratings (scale 0 4)

 $\begin{array}{c} \mathbf{0} \\ \mathbf{$

· HMIS-ratings (scale 0 - 4)



• Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

(Contd. of page 1)

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

Non-Hazardous Aqueous Buffer

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

• Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

 \cdot Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

(Contd. on page 3)

US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

(Contd. of page 2)

• PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- · Storage: 15-30°C
- Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions:
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see Section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

| Information on basic physic | cal and chemical properties | |
|-----------------------------|------------------------------------|--|
| General Information | | |
| Appearance: | | |
| Form: | According to product specification | |
| Color: | According to product specification | |
| Odor: | Indeterminate | |
| • Odor threshold: | Not determined. | |

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

| | | (Contd. of page |
|-------------------------------------|--------------------------------------------|-----------------|
| pH-value: | Not determined. | |
| Change in condition | | |
| Boiling point/Boiling range: | Undetermined. | |
| Flash point: | Not applicable. | |
| Flammability (solid, gaseous): | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Not determined. | |
| Danger of explosion: | See section 10 | |
| Explosion limits: | | |
| Lower: | Not Applicable | |
| Upper: | Not Applicable | |
| Vapor pressure: | Not Applicable | |
| Density: | Not Applicable | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | Not Determined | |
| Water: | Fully miscible. | |
| Partition coefficient (n-octanol/wa | ter): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Other information | No further relevant information available. | |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.

(Contd. on page 5)

⁻ US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

(Contd. of page 4)

• on the eye: Irritant and potentially harmful

• Sensitization: No sensitizing effects known.

 $\cdot \textit{Additional toxicological information:}$

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- \cdot Waste treatment methods
- · Recommendation:

Can not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleaning agents.

| · UN-Number | | |
|---------------------------|---------------|--|
| · DOT, ADR, IMDG, IATA | Not regulated | |
| · UN proper shipping name | | |
| · DOT, ADR, IMDG, IATA | Not regulated | |

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

| | | (Contd. of page 5) |
|------------------------------------------------------------------------|--------------------------|--------------------|
| · Transport hazard class(es) | | |
| · DOT, ADR, IMDG, IATA · Class | Not regulated | |
| · Packing group · DOT, ADR, IMDG, IATA | Not regulated | |
| · Environmental hazards: | Not applicable. | |
| · Special precautions for user | Not applicable. | |
| • Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. | |
| · UN "Model Regulation": | Not regulated | |

15 Regulatory information

| Safety, health and environmental regulations/legislation specific for the substance or mixture | |
|------------------------------------------------------------------------------------------------|--|
| No further relevant information available. | |

· Sara

| · Section 35 | 5 (extremely | hazardous | substances): |
|--------------|--------------|-----------|--------------|
|--------------|--------------|-----------|--------------|

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

• Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements Void

· Hazard pictograms Void

(Contd. on page 7)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Protease Dissolve Buffer

- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Contact:

· Date of preparation / last revision 07/12/2022 / -

(Contd. of page 6)

US



Printing date 07/12/2022

Reviewed on 07/12/2022

1 Identification

- · Product identifier
- · Trade name: DNase I
- · Article number: 7033401
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

· Information department: Quality Control Department • Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

| IEALTH 0 | Health = 0 |
|----------|----------------|
| | Fire = 0 |
| | Reactivity = 0 |

· Other hazards

F

B

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

(Contd. on page 2)

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Trade name: DNase I

(Contd. of page 1)

· Dangerous components: Void

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. · Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. · Protective Action Criteria for Chemicals · PAC-1: None of the ingredients is listed. · PAC-2: None of the ingredients is listed. · PAC-3: None of the ingredients is listed. (Contd. on page 3)

Printing date 07/12/2022

Trade name: DNase I

(Contd. of page 2)

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7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30°C
- Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions:
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see Section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: According to product specification According to product specification Color: · Odor: Indeterminate Not determined. · Odor threshold: Not determined. · pH-value: (Contd. on page 4) US

Printing date 07/12/2022

Reviewed on 07/12/2022

| | (C | ontd. of page |
|-------------------------------------|--------------------------------------------|---------------|
| Change in condition | | |
| Boiling point/Boiling range: | Undetermined. | |
| Flash point: | Not applicable. | |
| Flammability (solid, gaseous): | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Product is not selfigniting. | |
| Danger of explosion: | See section 10 | |
| Explosion limits: | | |
| Lower: | Not Applicable | |
| Upper: | Not Applicable | |
| Vapor pressure: | Not Applicable | |
| Density: | Not Applicable | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | Not Determined | |
| Water: | Fully miscible. | |
| Partition coefficient (n-octanol/wa | ter): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 90.0 % | |
| Other information | No further relevant information available. | |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

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Trade name: DNase I

(Contd. of page 4)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

• General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Can not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

(Contd. on page 6)

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Reviewed on 07/12/2022

Trade name: DNase I

(Contd. of page 5)

| UN-Number DOT, ADR, IMDG, IATA | Not regulated | |
|------------------------------------------------------------------------|--------------------------|--|
| UN proper shipping name DOT, ADR, IMDG, IATA | Not regulated | |
| · Transport hazard class(es) | | |
| DOT, ADR, IMDG, IATA Class | Not regulated | |
| Packing group DOT, ADR, IMDG, IATA | Not regulated | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Not applicable. | |
| Transport in bulk according to Annex I MARPOL73/78 and the IBC Code | II of Not applicable. | |
| · UN "Model Regulation": | Not regulated | |

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): 9003-98-9 Deoxyribonuclease I

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· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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Reviewed on 07/12/2022

Trade name: DNase I

• *TLV* (*Threshold Limit Value*) None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

• Hazard pictograms Void

• Signal word Void

· Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Contact:

· Date of preparation / last revision 07/12/2022 / -

US



Printing date 07/12/2022

Reviewed on 07/12/2022

- **1 Identification** Product identifier
- · Trade name: Buffer RTL
- Article number: 7033402
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4H302 Harmful if swallowed.Acute Tox. 4H332 Harmful if inhaled.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Guanidine Thiocyanate
Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage.
Precautionary statements

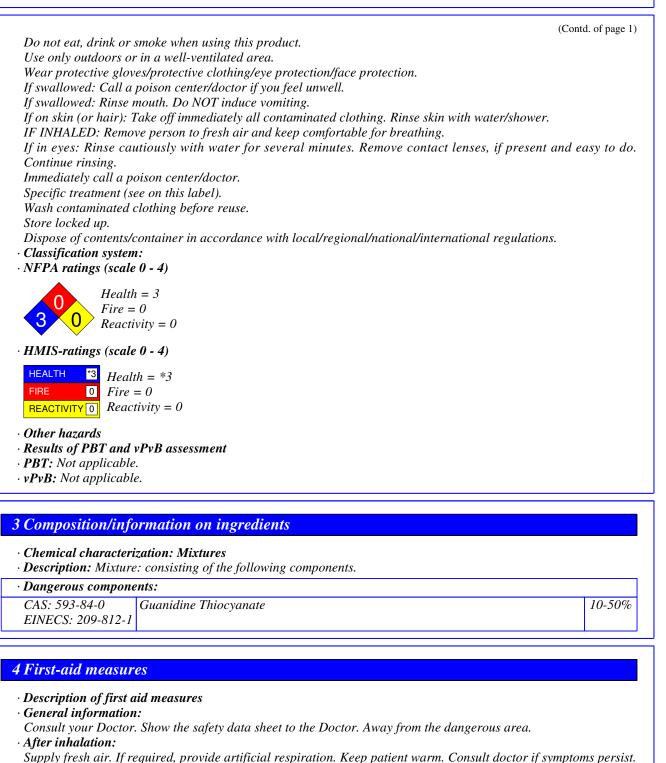
Do not breathe dusts or mists. Wash thoroughly after handling.

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If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult a

· After skin contact: Immediately rinse with water.

· After swallowing:

Doctor.

(Contd. on page 3)

Printing date 07/12/2022

Reviewed on 07/12/2022

(Contd. of page 2)

Trade name: Buffer RTL

· Information for doctor

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures | |
|--------------------------------------------------------------------------------------------------|---------------------|
| Mount respiratory protective device. | |
| Wear protective equipment. Keep unprotected persons away. | |
| · Environmental precautions: | |
| Dilute with plenty of water. | |
| Do not allow to enter sewers/ surface or ground water. | |
| · Methods and material for containment and cleaning up: | |
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Use neutralizing agent. | |
| Pick up mechanically, dispose contaminated material as waste according to Section 13. | |
| Ensure adequate ventilation. | |
| · Reference to other sections | |
| See Section 7 for information on safe handling. | |
| See Section 8 for information on personal protection equipment. | |
| See Section 13 for disposal information. | |
| · Protective Action Criteria for Chemicals | |
| | |
| · PAC-1: | |
| 593-84-0Guanidine Thiocyanate0.9 | 8 mg/m ³ |
| · PAC-2: | |
| 593-84-0Guanidine Thiocyanate1 | 1 mg/m ³ |
| · PAC-3: | |
| 593-84-0Guanidine Thiocyanate6 | 5 mg/m ³ |
| | |

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

• Storage: 15-30°C

· Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 4)

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer RTL

• Further information about storage conditions:

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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(Contd. of page 3)

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Trade name: Buffer RTL

(Contd. of page 4)

| | . | |
|-----------------------------------------------------------------------|------------------------------------|--|
| Information on basic physical and | chemical properties | |
| General Information Appearance: | | |
| Form: | According to product specification | |
| Color: | According to product specification | |
| Odor: | Indeterminate | |
| Odor threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Boiling point/Boiling range: | Undetermined. | |
| Flash point: | Not applicable. | |
| Flammability (solid, gaseous): | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Product is not selfigniting. | |
| anger of explosion: See section 10 | | |
| Explosion limits: | | |
| Lower: | Not Applicable | |
| Upper: | Not Applicable | |
| Vapor pressure: | Not Applicable | |
| Density: | Not Applicable | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | Not Determined | |
| Water: | Soluble. | |
| Partition coefficient (n-octanol/wa | ter): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| VOC content: | 0.00~% | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 50.0 % | |
| • <i>Other information</i> No further relevant information available. | | |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)

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Reviewed on 07/12/2022

Trade name: Buffer RTL

· Conditions to avoid

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

| ATE (Acute Toxicity Estimate) | | | |
|-------------------------------|------|-------------|--|
| | | 1,000 mg/kg | |
| Dermal | LD50 | 2,200 mg/kg | |

Inhalative LC50/4 h 3 mg/L

593-84-0 Guanidine Thiocyanate

| Oral | LD50 | 500 mg/kg (ATE) |
|------------|----------|-------------------|
| | LD50 | 1,100 mg/kg (ATE) |
| Inhalative | LC50/4 h | 1.5 mg/L (ATE) |

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Strong irritant with the danger of severe eye injury.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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(Contd. of page 5)

US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer RTL

(Contd. of page 6)

Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• *Recommendation:* Can not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

| · UN-Number · DOT, ADR, IMDG, IATA | UN1760 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| · UN proper shipping name | 0111700 |
| -DOT | Corrosive liquids, n.o.s. (Guanidine Thiocyanate) |
| ADR | 1760 CORROSIVE LIQUID, N.O.S. (Guanidine Thiocyanate) |
| · IMDG, IATA | CORROSIVE LIQUID, N.O.S. (Guanidine Thiocyanate) |
| · Transport hazard class(es) | |
| ·DOT | |
| and the second s | |
| CORROSIVE 8 | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · ADR, IMDG, IATA | |
| | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| | |
| · Packing group · DOT, ADR, IMDG, IATA | 111 |
| • Environmental hazards: | Not applicable. |
| | * * |
| • Special precautions for user Hazard identification number (Kemler code) | Warning: Corrosive substances |
| · Hazard identification number (Kemler code) · EMS Number: | F-A,S-B |
| • Stowage Category | Г-А,S-D А |

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Trade name: Buffer RTL

| | (Contd. of page 7) |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| · Stowage Code | SW2 Clear of living quarters. |
| • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| • DOT • Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| · ADR · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN ''Model Regulation'': | UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE), 8, III |

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

593-84-0 Guanidine Thiocyanate

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 9)

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[•] US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer RTL

(Contd. of page 8)

· Carcinogenic categories

 \cdot EPA (Environmental Protection Agency)

None of the ingredients is listed. • TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: *Guanidine Thiocyanate* · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Quality Control Dept.
- · Contact:
- · Date of preparation / last revision 07/12/2022 / -

• Abbreviations and acronyms: Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1



Printing date 07/12/2022

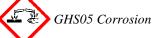
Reviewed on 07/12/2022

- **1** Identification
- · Product identifier
- Trade name: <u>Buffer MCB</u>
- Article number: 7033403
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4H302 Harmful if swallowed.Acute Tox. 4H332 Harmful if inhaled.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Guanidine Thiocyanate
Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage.
Precautionary statements

Do not breathe dusts or mists. Wash thoroughly after handling.

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB



· Description of first aid measures

• General information:

Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.

- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult a Doctor.

(Contd. on page 3)

US

Printing date 07/12/2022

Reviewed on 07/12/2022

(Contd. of page 2)

Trade name: Buffer MCB

- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

| • Personal precautions, protective equipment and emergency procedures | |
|---------------------------------------------------------------------------------------------------|----------------------|
| Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. | |
| • Environmental precautions: | |
| Dilute with plenty of water. | |
| Do not allow to enter sewers/ surface or ground water. | |
| · Methods and material for containment and cleaning up: | |
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Use neutralizing agent. | |
| Pick up mechanically, dispose contaminated material as waste according to Section 13. | |
| Ensure adequate ventilation. | |
| · Reference to other sections | |
| See Section 7 for information on safe handling. | |
| See Section 8 for information on personal protection equipment. | |
| See Section 13 for disposal information. | |
| · Protective Action Criteria for Chemicals | |
| • PAC-1: | |
| 593-84-0 Guanidine Thiocyanate | $0.98 \ mg/m^3$ |
| · PAC-2: | |
| 593-84-0 Guanidine Thiocyanate | 11 mg/m ³ |
| · PAC-3: | |
| 593-84-0 Guanidine Thiocyanate | 65 mg/m ³ |
| | |

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
- Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

• Storage: 15-30°C

· Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 4)

US -

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

• Further information about storage conditions:

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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(Contd. of page 3)

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

(Contd. of page 4)

| Physical and chemical prope | rties | |
|-------------------------------------|--------------------------------------------|--|
| Information on basic physical and | chemical properties | |
| General Information | | |
| Appearance: | | |
| Form: | According to product specification | |
| Color: | According to product specification | |
| Odor: | Indeterminate | |
| Odor threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Boiling point/Boiling range: | Undetermined. | |
| Flash point: | Not applicable. | |
| Flammability (solid, gaseous): | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Product is not selfigniting. | |
| Danger of explosion: | See section 10 | |
| Explosion limits: | | |
| Lower: | Not Applicable | |
| Upper: | Not Applicable | |
| Vapor pressure: | Not Applicable | |
| Density: | Not Applicable | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | Not Determined | |
| Water: | Soluble. | |
| Partition coefficient (n-octanol/wa | ter): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 50.0 % | |
| Other information | No further relevant information available. | |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)

⁻ US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

· Conditions to avoid

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

| ATE (Acute Toxicity Estimate) | | | |
|-------------------------------|------|-------------|--|
| Oral | LD50 | 1,000 mg/kg | |

Dermal LD50 2,200 mg/kg Inhalative LC50/4 h 3 mg/L

593-84-0 Guanidine Thiocyanate

| | | • |
|------------|----------|-------------------|
| Oral | LD50 | 500 mg/kg (ATE) |
| | LD50 | 1,100 mg/kg (ATE) |
| Inhalative | LC50/4 h | 1.5 mg/L (ATE) |

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Strong irritant with the danger of severe eye injury.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity: No further relevant information available.

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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(Contd. of page 5)

US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

(Contd. of page 6)

Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• *Recommendation:* Can not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- Recommendation: Discard must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleaning agents.

| · UN-Number | |
|-------------------------------------------|-------------------------------------------------------|
| · DOT, ADR, IMDG, IATA | UN1760 |
| · UN proper shipping name | |
| · DOT | Corrosive liquids, n.o.s. (Guanidine Thiocyanate) |
| ADR | 1760 CORROSIVE LIQUID, N.O.S. (Guanidine Thiocyanate) |
| · IMDG, IATA | CORROSIVE LIQUID, N.O.S. (Guanidine Thiocyanate) |
| • Transport hazard class(es) | |
| ·DOT | |
| | |
| <u></u> | |
| CORROSIVE | |
| | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · ADR, IMDG, IATA | |
| | |
| <u></u> | |
| 8 | |
| \mathbf{V} | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | III |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Warning: Corrosive substances |
| · Ĥazard identification number (Kemler co | |
| · EMS Number: | F-A, S-B |
| · Stowage Category | Α |

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

| | (Contd. of page 7) |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| · Stowage Code | SW2 Clear of living quarters. |
| • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| • DOT • Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| · ADR · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN ''Model Regulation'': | UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE), 8, III |

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

593-84-0 Guanidine Thiocyanate

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 9)

ACTIVE

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Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: Buffer MCB

(Contd. of page 8)

· Carcinogenic categories

 \cdot EPA (Environmental Protection Agency)

None of the ingredients is listed.

• *TLV* (*Threshold Limit Value*) None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: *Guanidine Thiocyanate* · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Quality Control Dept.
- · Contact:
- · Date of preparation / last revision 07/12/2022 / -

• Abbreviations and acronyms: Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1



Printing date 07/12/2022

Reviewed on 07/12/2022

- **1** Identification
- · Product identifier
- · Trade name: 8-strip A (Cover for Magnetic Rod)
- Article number: 7033906
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

• Information department: Quality Control Department • Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

• *Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized System (GHS).*

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

| HEALTH 0 | Health = 0 |
|--------------|----------------|
| FIRE 0 | Fire = 0 |
| REACTIVITY 0 | Reactivity = 0 |

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB**: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 8-strip A (Cover for Magnetic Rod)

(Contd. on page 2)

US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: 8-strip A (Cover for Magnetic Rod)

(Contd. of page 1)

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30°C
- · Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 3)

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: 8-strip A (Cover for Magnetic Rod)

• Further information about storage conditions:

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see Section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment: Not required.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties

[·] General Information

| According to product specification |
|------------------------------------|
| According to product specification |
| Indeterminate |
| Not determined. |
| Not applicable. |
| |
| Undetermined. |
| Not applicable. |
| Product is not flammable. |
| Not determined. |
| Not determined. |
| See section 10 |
| |
| Not Applicable |
| - |

(Contd. of page 2)

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: 8-strip A (Cover for Magnetic Rod)

| | | (Contd. of page 3) |
|---------------------------------------|--------------------------------------------|--------------------|
| Upper: | Not Applicable | |
| · Vapor pressure: | Not applicable. | |
| · Density: | Not Applicable | |
| · Relative density | Not determined. | |
| · Vapor density | Not applicable. | |
| · Evaporation rate | Not applicable. | |
| · Solubility in / Miscibility with | Not Determined | |
| · Water: | Easily soluble. | |
| · Partition coefficient (n-octanol/wa | t ter): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not applicable. | |
| Kinematic: | Not applicable. | |
| VOC content: | 0.00 % | |
| Solids content: | 100.0 % | |
| • Other information | No further relevant information available. | |

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid
- No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

(Contd. on page 5)

⁻ US

Printing date 07/12/2022

Reviewed on 07/12/2022

Trade name: 8-strip A (Cover for Magnetic Rod)

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot **Mobility in soil** No further relevant information available.
- \cdot Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:
 - Can not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleaning agents.

| UN-Number | | |
|-------------------------------------------------|-----------------|--|
| DOT, ADR, IMDG, IATA | Not regulated | |
| UN proper shipping name DOT, ADR, IMDG, IATA | Not regulated | |
| Transport hazard class(es) | | |
| DOT, ADR, IMDG, IATA | | |
| Class | Not regulated | |
| Packing group DOT, ADR, IMDG, IATA | Not regulated | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Not applicable. | |
| Transport in bulk according to Annex | II of | |
| MARPOL73/78 and the IBC Code | Not applicable. | |

Reviewed on 07/12/2022

(Contd. of page 5)

Trade name: 8-strip A (Cover for Magnetic Rod)

· UN "Model Regulation":

Printing date 07/12/2022

Not regulated

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

 \cdot Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

• Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Contact:

· Date of preparation / last revision 07/12/2022 / -



Printing date 07/12/2022

Reviewed on 07/12/2022

- **1** Identification
- · Product identifier
- Trade name: <u>Elution Tubes</u>
- Article number: 7033907
- · Application of the substance / the mixture For Research or Further Manufacturing Use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

• *Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized System (GHS).*

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

| HEALTH 0 | Health = 0 |
|--------------|----------------|
| FIRE 0 | Fire = 0 |
| REACTIVITY 0 | Reactivity = 0 |

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- Elution Tubes

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4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special requirements.
- · Conditions for safe storage, including any incompatibilities
- Storage: 15-30°C
- · Requirements to be met by storerooms and receptacles: No special requirements.

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- Further information about storage conditions:
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

| · Appearance: | |
|-------------------------------------|------------------------------------|
| Form: | According to product specification |
| Color: | According to product specification |
| · Odor: | Indeterminate |
| · Odor threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Change in condition | |
| Boiling point/Boiling range: | Undetermined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Product is not flammable. |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Not determined. |
| · Danger of explosion: | See section 10 |
| · Explosion limits: | |
| Lower: | Not Applicable |
| | (Contd. on page 4) |

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| | | (Contd. of page 3 |
|---------------------------------------|--------------------------------------------|-------------------|
| Upper: | Not Applicable | |
| · Vapor pressure: | Not applicable. | |
| · Density: | Not Applicable | |
| · Relative density | Not determined. | |
| · Vapor density | Not applicable. | |
| · Evaporation rate | Not applicable. | |
| · Solubility in / Miscibility with | Not Determined | |
| · Water: | Easily soluble. | |
| · Partition coefficient (n-octanol/wa | ter): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not applicable. | |
| Kinematic: | Not applicable. | |
| VOC content: | 0.00 % | |
| Solids content: | 100.0 % | |
| • Other information | No further relevant information available. | |

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid
- No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot **Mobility in soil** No further relevant information available.
- \cdot Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
 - Can not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleaning agents.

| · UN-Number · DOT, ADR, IMDG, IATA | Not regulated | |
|--------------------------------------------------------------------------|---------------------------------|--|
| UN proper shipping name DOT, ADR, IMDG, IATA | Not regulated | |
| Transport hazard class(es) | | |
| DOT, ADR, IMDG, IATA Class | Not regulated | |
| Packing group DOT, ADR, IMDG, IATA | Not regulated | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Not applicable. | |
| • Transport in bulk according to Annex . MARPOL73/78 and the IBC Code | II of Not applicable. | |

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· UN "Model Regulation":

Not regulated

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara

 \cdot Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

• Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Contact:

· Date of preparation / last revision 07/12/2022 / -