

Material Safety Data Sheet

Trade name: Buffer F2

Date of issue: 12/15/2015

1. Identification of substance

Trade name: Buffer F2

Manufacturer/Supplier:

Biomiga, Inc. 10637 Roselle Street, Suite C, San Diego, CA 92121
Tel: (858) 597-0602 Fax: (858) 538-1698

Information department:

Biomiga Technical Support
10637 Roselle Street, Suite C, San Diego, CA 92121
Tel: (858) 597-0602 Fax: (858) 538-1698
Email: info@biomiga.com

2. Composition

Chemical description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

1310-73-2	Sodium Hydroxide	<2%
151-21-3	sodium dodecyl sulphate	<1%

3. Hazards identification

Hazard description: Not applicable.

Information pertaining to particular dangers for man and environment: Not applicable.

Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

WHMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

4. First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for at least 10 minutes under running water. Then consult a doctor.

After swallowing: Immediately call a doctor.

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5. Fire fighting measures

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Information for safe handling: Keep receptacles tightly sealed.

Information about protection against explosions and fires: No special measures required.

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

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

8. Exposure controls and personal protection

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

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.

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Protection of hands: Protective gloves

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: Tightly sealed goggles

9. Physical and chemical properties

Form: Fluid

Color: Colorless

Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20°C (68°F): 1.017 g/cm³

Solubility in / Miscibility with

Water: Fully miscible.

pH-value at 20°C (68°F): 13.00

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10. Stability and reactivity

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

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition: Danger of toxic pyrolysis products.

11. Toxicological information

Acute toxicity: N/A

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 is not subject to classification according to internally approved calculation methods for preparations.

12. Ecological information

Water hazard class I: Slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

Flush down sink for small quantities.

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport information

N/A

15. Regulations

N/A

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 be held liable for consequences resulting from handling or contacting with the above product.

Material Safety Data Sheet

Trade name: RNase A
Date of issue: 11/06/14

1. Identification of substance

Trade name: RNase A

Manufacturer/Supplier:

Biomiga, Inc. 10637 Roselle Street, Suite C, San Diego, CA 92121, USA
Tel: (858) 597-0602, Fax: (858) 538-1698

Information department:

Biomiga Technical Support
Biomiga, Inc 10637 Roselle Street, Suite C, San Diego, CA 92121, USA
Tel: (858) 597-0602, Fax: (858) 538-1698
Email: info@biomiga.com

2. Composition

Chemical characterization: Aqueous mix of substances listed below and nonhazardous additons

Hazardous components: 9001-99-4 Nuclease, ribo- (<10%)

3. Hazards identification

Hazard description:

Harmful

Information pertaining to particular dangers for man and environment:

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

WHMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

4. First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for at least 10 minutes under running water. Then consult a doctor.

After swallowing: Immediately call a doctor

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5. Firefighting measure

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Measures for environmental protection:

Prevent seepage into sewage system, workpits and cellars.

Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7. Handling and storage

Information for safe handling: Keep receptacles tightly sealed.

Information about protection against explosions and fires: No special measures required.

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

Store tightly closed at -20 °C.

8. Exposure controls and personal protection

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

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.

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Protection of hands: Protective gloves

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: Tightly sealed goggles

9. Physical and chemical properties

Form: Liquid **Color:**

Colorless **Odor:**

Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Danger of explosion: Product does not present an explosion hazard.

Density: Not determined.

pH: 25 °C 7.0

Solubility in / Miscibility with Water: Fully miscible.

10. Stability and reactivity

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

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition: Danger of toxic pyrolysis products **Dangerous reactions:**

Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition: Danger of toxic pyrolysis products.

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11. Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

12. Ecological information

General notes: Generally not hazardous for water

13. Disposal considerations

Recommendation:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport information

N/A

15. Regulations

N/A

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 be held liable for consequences resulting from handling or contacting with the above product.

Material Safety Data Sheet

Trade name: Buffer F3
Date of issue: 07/01/15

1. Identification of substance

Trade name: Buffer F3

Manufacturer/Supplier:

Biomiga, Inc. 10637 Roselle Street, Suite C, San Diego, CA 92121, USA
Tel: (858) 603-3219, Fax: (858) 538-1698

Information department:

Biomiga Technical Support
Biomiga, Inc. 10637 Roselle Street, Suite C, San Diego, CA 92121, USA

Tel: (858) 507-0602, Fax: (858) 538-1698
Email: info@biomiga.com

2. Composition

Chemical description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

64-19-7	Acetic acid	<22%
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3. Hazards identification

Hazard description: Harmful

NFPA ratings (scale 0 - 4)

Health = 1

Fire = 2

Reactivity = 0

WHMIS-ratings (scale 0 - 4)

Health = 1

Fire = 2

Reactivity = 0

4. First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for at least 10 minutes under running water. Then consult a doctor.

After swallowing: Immediately call a doctor.

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5. Fire fighting measures

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Information for safe handling: Keep receptacles tightly sealed.

Information about protection against explosions and fires: No special measures required.

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

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

8. Exposure controls and personal protection

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

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.

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Protection of hands: Protective gloves

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: Tightly sealed goggles

9. Physical and chemical properties

Form: Fluid

Color: Colorless

Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: 21 - 55°C (70 - 131°F)

Ignition temperature: 425°C (797°F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:

Lower: 2.0 Vol %

Upper: 12.0 Vol %

Vapor pressure at 20°C (68°F): 43 hPa (32 mm Hg)

Density at 20°C (68°F): 1.14 g/cm³

Solubility in / Miscibility with

Water: Fully miscible.

pH-value at 20°C (68°F): 4.3

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10. Stability and reactivity

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

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition: Danger of toxic pyrolysis products.

11. Toxicological information

Acute toxicity: N/A

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 and Irritant.

12. Ecological information

Water hazard class I: Slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

Flush down sink for small quantities.

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport information

N/A

15. Regulations

N/A

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 be held liable for consequences resulting from handling or contacting with the above product.