1.1 Product Identification

Product Name: NB78 Nitrate Reductase
Product Number: NB78
Brand: Oxford Biomedical Research

1.2 Supplier

Company: Oxford Biomedical Research, Inc.
PO Box 522
Oxford, MI 48371
USA
Contact: 248-852-8815
info@oxfordbiomed.com

1.3 Relevant Uses

Identified uses: Research Assay

1.4 Emergency Contact Number

Contact: 248-852-8815

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

2.2 GHS Label or Precautionary Statements

Not a hazardous substance or mixture

2.3 Hazards not otherwise classified:

None

3.1 Substances: Nitrate Reductase (1 unit)

No components need to be disclosed according to the applicable regulations

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects: acute or delayed
The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment
Treat symptomatically

5.1 Extinguishing media
Use water spray, dry chemical, or carbon dioxide

5.2 Special hazards
No data available

SECTION 6: Accidental Release Measures

6.1 Personal precautions and personal protective equipment
Standard laboratory personal protective equipment should be utilized.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods for containment and clean up
Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Follow standard Good Laboratory Practices while using this product.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Recommended storage temperature is -20°C.

SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
No data available
8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment
Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Do not let product enter drains

SECTION 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
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</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
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<td>Odor Threshold</td>
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<td>Vapor Density</td>
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<td>pH</td>
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<tr>
<td>Relative Density</td>
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<tr>
<td>Melting Point</td>
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<tr>
<td>Freezing Point</td>
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<tr>
<td>Solubility</td>
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<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
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<tr>
<td>Evaporation Rate:</td>
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<tr>
<td>Auto-ignition Temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Viscosity
No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical Stability
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions
No data available

SECTION 11: Toxicological Information

11.1 Toxicity
Acute toxicity
No data available

Skin irritation
May cause redness and irritation in sensitive individuals

Serious eye damage or irritation
May cause redness and irritation in sensitive individuals

Respiratory or skin sensitization
May cause respiratory in sensitive individuals

Germ cell mutagenicity
No data available

Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity
No data available

Specific target organ toxicity
No data available

Aspiration hazard
No data available

SECTION 12: Ecological Information

12.1 Toxicity
Avoid release into the environment
12.2 Persistence and degradability  No data available

12.3 Bioaccumulation potential  No bioaccumulation expected

12.4 Mobility in Soil  Not expected to absorb on soil

12.5 Other adverse effects  No data available

SECTION 13: Disposal Considerations
13.1 Waste treatment methods  Dispose of product with a licensed disposal company.

SECTION 14: Transport Information
14.1 US DOT  Not dangerous goods
14.2 IMDG  Not dangerous goods
14.3 IATA  Not dangerous goods

SECTION 15: Regulatory Information
No known regulatory requirements.

SECTION 16: Other Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
Revision date: 7-23-21
1.1 **Product Identification**

Product Name: NB78 Nitrate Reductase Buffer
Product Number: NB78
Brand: Oxford Biomedical Research

1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.
PO Box 522
Oxford, MI 48371
USA
Contact: 248-852-8815
info@oxfordbiomed.com

1.3 **Relevant Uses**

Identified uses: Research Assay

1.4 **Emergency Contact Number**

Contact: 248-852-8815

2.1 **Classification of the substance or mixture**

Not a hazardous substance or mixture

2.2 **GHS Label or Precautionary Statements**

GHS Label or Precautionary Statements

Not a hazardous substance or mixture

2.3 **Hazards not otherwise classified:**

None

3.1 **Substances:** Nitrate Reductase Buffer (1.2mL)

No components need to be disclosed according to the applicable regulations

4.1 **Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.
4.2 Most important symptoms and effects: acute or delayed
The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment
Treat symptomatically

5.1 Extinguishing media
Use water spray, dry chemical, or carbon dioxide

5.2 Special hazards
Keep product away from heat sources

SECTION 6: Accidental Release Measures

6.1 Personal precautions and personal protective equipment
Standard laboratory personal protective equipment should be utilized.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods for containment and clean up
Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Follow standard Good Laboratory Practices while using this product.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
Glycerin
Value: TWA control parameters: 10mg/m3 mist only (UK only)

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.
8.3 Personal Protective Equipment

Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

Appearance
Viscous Liquid

Odor
Slight

Flammability
No data available

Vapor Pressure
No data available

Odor Threshold
No data available

Vapor Density
No data available

pH
No data available

Relative Density
No data available

Melting Point
No data available

Freezing Point
No data available

Solubility
No data available

Boiling Point
No data available

Flash Point
No data available

Evaporation Rate:
No data available

Auto-ignition Temperature
No data available

Decomposition Temperature
No data available

Viscosity
No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity
No data available
10.2 Chemical Stability
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions
No data available

SECTION 11: Toxicological Information

11.1 Toxicity

Acute toxicity
Based on available data, the classification criteria are not met

Skin irritation
Based on available data, the classification criteria are not met

Serious eye damage or irritation
Based on available data, the classification criteria are not met

Respiratory or skin sensitization
Based on available data, the classification criteria are not met

Germ cell mutagenicity
Based on available data, the classification criteria are not met

Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity
Based on available data, the classification criteria are not met

Specific target organ toxicity
Based on available data, the classification criteria are not met

Aspiration hazard
Based on available data, the classification criteria are not met

SECTION 12: Ecological Information
12.1 Toxicity No data available

12.2 Persistence and degradability readily biodegradable

12.3 Bioaccumulation potential No bioaccumulation expected

12.4 Mobility in Soil Highly mobile in soils

12.5 Other adverse effects None

SECTION 13: Disposal Considerations
13.1 Waste treatment methods Dispose of product with a licensed disposal company.

SECTION 14: Transport Information
14.1 US DOT Not dangerous goods
14.2 IMDG Not dangerous goods
14.3 IATA Not dangerous goods

SECTION 15: Regulatory Information
No known regulatory requirements.

SECTION 16: Other Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
Revision date: 7-23-21
1.1 Product Identification
Product Name: NB78 Reaction Buffer
Product Number: NB78
Brand: Oxford Biomedical Research

1.2 Supplier
Company: Oxford Biomedical Research, Inc.
PO Box 522
Oxford, MI 48371
USA
Contact: 248-852-8815
info@oxfordbiomed.com

1.3 Relevant Uses
Identified uses: Research Assay

1.4 Emergency Contact Number
Contact: 248-852-8815

2.1 Classification of the substance or mixture
Eye Irritation (category 2A), Acute Toxicity oral/inhalation (category 4), Skin Irritation (category 2), Serious eye damage (category 1), Short term acute aquatic hazard (category 3), long term chronic aquatic hazard (category 3)

2.2 GHS Label or Precautionary Statements
Harmful if swallowed, causes skin irritation, causes serious eye irritation/damage, harmful to aquatic life with long lasting effects, harmful if inhaled, may cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled

2.3 Hazards not otherwise classified
None

3.1 Substances Reaction Buffer (50mL)
Calcium Chloride Dihydrate
Eye Irrit. 2A; H319
Edetate Disodium Dihydrate
Acute Tox. 4; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H332, H373, H402, H412
(R*, R*-)1, 4-Dimercapto-2, 3-butanediol
Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 3; H302, H315, H318, H402

4.1 Description of first aid measures
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician

**In case of eye contact**
Flush eyes with water for 15 minutes. Call an ophthalmologist

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 **Most important symptoms and effects: acute or delayed**
The most important symptoms/effects are listed in section 2 and 11

4.3 **Recommendations for immediate medical care or special treatment**
Treat symptomatically

5.1 **Extinguishing media**
Use water spray, dry chemical, or carbon dioxide

5.2 **Special hazards**
Carbon oxides, Sulfur oxides, Nitrogen oxides, combustible,

**SECTION 6: Accidental Release Measures**

6.1 **Personal precautions and personal protective equipment**
Standard laboratory personal protective equipment should be utilized.

6.2 **Environmental precautions**
Don’t let product enter drains

6.3 **Methods for containment and clean up**
Wipe with absorbent material and dispose of in suitable container.

**SECTION 7: Handling and Storage**

7.1 **Precautions for safe handling**
Follow standard Good Laboratory Practices while using this product.

7.2 **Conditions for safe storage, including any incompatibilities**
Keep container tightly closed. Recommended storage temperature is 4°C.
SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
Contains no substances with occupational exposure limits.

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment

Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Prevent product from entering drains

SECTION 9: Physical and Chemical Properties

Appearance
Clear Liquid

Odor
Odorless

Flammability
No data available

Vapor Pressure
No data available

Odor Threshold
No data available

Vapor Density
No data available

pH
No data available

Relative Density
No data available

Melting Point
No data available

Freezing Point
No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
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</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and Reactivity**

10.1 Reactivity Forms explosive mixture with air on intense heating

10.2 Chemical Stability Stable under recommended storage conditions

10.3 Possibility of hazardous reactions Violent reactions possible with strong oxidizing agents

**SECTION 11: Toxicological Information**

11.1 Toxicity

11.1.1 Acute toxicity No data available

Skin irritation May cause skin irritation

Serious eye damage or irritation Can cause serious eye damage

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity No data available

Specific target organ toxicity Acute oral toxicity-after uptake of large quantities,
stomach/intestinal disorders. Acute inhalation toxicity—possible damage, mucosal irritations

Aspiration hazard No data available

SECTION 12: Ecological Information
12.1 Toxicity Toxicity to fish, daphnia and other aquatic invertebrates
12.2 Persistence and degradability Not readily biodegradable
12.3 Bioaccumulation potential No data available
12.4 Mobility in Soil No data available
12.5 Other adverse effects Avoid release into the environment

SECTION 13: Disposal Considerations
13.1 Waste treatment methods Dispose of product with a licensed disposal company.

SECTION 14: Transport Information
14.1 US DOT Not dangerous goods
14.2 IMDG Not dangerous goods
14.3 IATA Not dangerous goods

SECTION 15: Regulatory Information
No known regulatory requirements.

SECTION 16: Other Information
The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.
Revision date: 7-28-21
1.1 **Product Identification**

Product Name: NB78 Nitrite Standard
Product Number: NB78
Brand: Oxford Biomedical Research

1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.
PO Box 522
Oxford, MI 48371
USA
Contact: 248-852-8815
info@oxfordbiomed.com

1.3 **Relevant Uses**

Identified uses: Research Assay

1.4 **Emergency Contact Number**

Contact: 248-852-8815

2.1 **Classification of the substance or mixture**

Acute Toxicity inhalation (category 4), Specific target organ toxicity - repeated exposure, inhalation (category 2), respiratory tract H373, Short-term acute aquatic hazard (category 1, 3), long term chronic aquatic hazard (category 3), oxidizing solids (category 3), Eye irritation (category 2A), Acute toxicity oral (category 3), carcinogenicity (category 1B)

2.2 **GHS Label or Precautionary Statements**

Harmful if inhaled, may cause damage to organs (respiratory tract) through prolonged or repeated exposure, harmful to aquatic life with long lasting effects, may intensify fire; oxidizer, Toxic if swallowed, causes serious eye irritation, may cause cancer, very toxic to aquatic life.

2.3 **Hazards not otherwise classified**

None

3.1 **Substances** Nitrite Standard (2.5mL)

Sodium Nitrite Ox. Sol. 3; Acute Tox. 3; Eye Irrit. 2A; Carc. 1B; Aquatic Acute 1; H272, H301, H319, H350, H400, M-factor-Aquatic acute: 1
Edetate Disodium Dihydrate Acute Tox. 4; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H332, H373, H402, H412

4.1 **Description of first aid measures**

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 **Most important symptoms and effects: acute or delayed**
The most important symptoms/effects are listed in section 2 and 11

4.3 **Recommendations for immediate medical care or special treatment**
Treat symptomatically

5.1 **Extinguishing media**
Use water spray, dry chemical, or carbon dioxide

5.2 **Special hazards**
Carbon oxides, nitrogen oxides, sulfur oxides, sodium oxides, combustible, development of hazardous gases or vapours in the event of a fire

**SECTION 6: Accidental Release Measures**

6.1 **Personal precautions and personal protective equipment**
Standard laboratory personal protective equipment should be utilized. Avoid dust formation

6.2 **Environmental precautions**
Don’t let product enter drains

6.3 **Methods for containment and clean up**
Wipe with absorbent material and dispose of in suitable container.

**SECTION 7: Handling and Storage**

7.1 **Precautions for safe handling**
Follow standard Good Laboratory Practices while using this product. Keep away from open flames and do not inhale.

7.2 **Conditions for safe storage, including any incompatibilities**
Keep container tightly closed. Recommended storage temperature is 4°C.
SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
Contains no substances with occupational exposure limits.

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment

Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Prevent product from entering drains

SECTION 9: Physical and Chemical Properties

Appearance
Clear liquid

Odor
No data available

Flammability
No data available

Vapor Pressure
No data available

Odor Threshold
No data available

Vapor Density
No data available

pH
No data available

Relative Density
No data available

Melting Point
No data available

Freezing Point
No data available

Solubility
Soluble in water

Boiling Point
No data available

Flash Point
No data available
Evaporation Rate: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity No data available

10.2 Chemical Stability Stable under recommended storage conditions

10.3 Possibility of hazardous reactions Violent reactions possible with strong oxidizing agents risk of explosion with combustible substances

SECTION 11: Toxicological Information

11.1 Toxicity
Acute toxicity No data available
Skin irritation No data available
Serious eye damage or irritation Possible moderate eye irritation
Respiratory or skin sensitization No data available
Germ cell mutagenicity No data available
Carcinogenicity IARC: 2a- Group 2A: probably carcinogenic to humans (sodium nitrite)
Reproductive toxicity No data available
Specific target organ toxicity Inhalation-May cause damage to organs through prolonged or repeated exposure-respiratory tract
Aspiration hazard No data available
SECTION 12: Ecological Information

12.1 Toxicity
Toxicity to fish, daphnia and other aquatic invertebrates

12.2 Persistence and degradability
No data available

12.3 Bioaccumulation potential
No data available

12.4 Mobility in Soil
No data available

12.5 Other adverse effects
Avoid release into the environment

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Dispose of product with a licensed disposal company.

SECTION 14: Transport Information

14.1 US DOT
Not dangerous goods

14.2 IMDG
Not dangerous goods

14.3 IATA
Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.

Revision date: 7-28-21
1.1 **Product Identification**

- **Product Name:** NB78 Color Reagent 1
- **Product Number:** NB78
- **Brand:** Oxford Biomedical Research

1.2 **Supplier**

- **Company:** Oxford Biomedical Research, Inc.
  PO Box 522
  Oxford, MI 48371
  USA
- **Contact:** 248-852-8815
  info@oxfordbiomed.com

1.3 **Relevant Uses**

- **Identified uses:** Research Assay

1.4 **Emergency Contact Number**

- **Contact:** 248-852-8815

2.1 **Classification of the substance or mixture**

Corrosive to metals, skin irritation, eye irritation, specific target organ toxicity—single exposure, respiratory system

2.2 **GHS Label or Precautionary Statements**

- H290- may be corrosive to metals, H315-causes skin irritation, H319-causes serious eye irritation, H335-may cause respiratory irritation

2.3 **Hazards not otherwise classified**

Caution: Physiologically highly active, contains therapeutically usable substance.

3.1 **Substances:** Color reagent 1 (7mL)

- HCl
  Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3;
  H290, H314, H318, H335

4.1 **Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**In case of skin contact**
Take off contaminated clothing right away. Wash off with soap and plenty of water. Consult a physician

**In case of eye contact**
Flush eyes with water for at least 15 minutes. Keep rinsing eyes during transport to the hospital

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 **Most important symptoms and effects: acute or delayed**
The most important symptoms/effects are listed in section 2 and 11

4.3 **Recommendations for immediate medical care or special treatment**
Treat symptomatically

5.1 **Extinguishing media**
Use water spray, dry chemical, or carbon dioxide

5.2 **Special hazards**
Hydrogen Chloride gas, carbon oxides, nitrogen oxides, sulfur oxides, carbon oxides, combustible

**SECTION 6: Accidental Release Measures**

6.1 **Personal precautions and personal protective equipment**
Standard laboratory personal protective equipment should be utilized.

6.2 **Environmental precautions**
Don’t let product enter drains

6.3 **Methods for containment and clean up**
Wipe with absorbent material and dispose of in suitable container.

**SECTION 7: Handling and Storage**

7.1 **Precautions for safe handling**
Follow standard Good Laboratory Practices while using this product.

7.2 **Conditions for safe storage, including any incompatibilities**
Keep in an amber container tightly closed. Recommended storage temperature is 4°C. Avoid direct exposure to sunlight
SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
HCl Value: C, Control parameters: 2ppm

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment
Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Do not let product enter drains

SECTION 9: Physical and Chemical Properties

Appearance Clear, colorless solution
Odor No data available
Flammability Not data available
Vapor Pressure No data available
Odor Threshold No data available
Vapor Density No data available
pH Not applicable
Relative Density No data available
Melting Point Not applicable
Freezing Point No data available
Solubility: Soluble in water
Boiling Point: No data available
Flash Point: No data available
Evaporation Rate: No data available
Auto-ignition Temperature: Product is not self-igniting
Decomposition Temperature: No data available
Viscosity: No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical Stability: Stable under recommended storage conditions

10.3 Possibility of hazardous reactions: No data available

SECTION 11: Toxicological Information

11.1 Toxicity
   Acute toxicity: No data available
   Skin irritation: Irritating to skin and mucus membranes
   Serious eye damage or irritation: Irritating to eyes. May cause irreversible eye damage
   Respiratory or skin sensitization: May cause irritation in sensitive individuals
   Germ cell mutagenicity: No data available

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity: No data available

Specific target organ toxicity: May cause respiratory irritation
Aspiration hazard  
No data available

SECTION 12: Ecological Information

12.1 Toxicity  
No data available

12.2 Persistence and degradability  
Not readily biodegradable

12.3 Bioaccumulation potential  
No data available

12.4 Mobility in Soil  
No data available

12.5 Other adverse effects  
May be harmful to aquatic life due to the shift of the PH. Avoid release to the environment

SECTION 13: Disposal Considerations

13.1 Waste treatment methods  
Dispose of product with a licensed disposal company.

SECTION 14: Transport Information

14.1 US DOT  
Not dangerous goods

14.2 IMDG  
Not dangerous goods

14.3 IATA  
Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.

Revision date: 7-28-21
1.1 **Product Identification**

Product Name: NB78 Color Reagent 2
Product Number: NB78
Brand: Oxford Biomedical Research

1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.
PO Box 522
Oxford, MI 48371
USA
Contact: 248-852-8815
info@oxfordbiomed.com

1.3 ** Relevant Uses**

Identified uses: Research Assay

1.4 **Emergency Contact Number**

Contact: 248-852-8815

2.1 **Classification of the substance or mixture**

Acute Toxicity (oral) Category 4, skin irritation category 2, eye irritation category 2A, specific target organ toxicity-single exposure category 1 (eyes)

2.2 **GHS Label or Precautionary Statements**

Harmful if swallowed, causes skin irritation, causes serious eye irritation, causes damage to organs (eyes)

2.3 **Hazards not otherwise classified**

None

3.1 **Substances**: Color Reagent 2 (7mL)

N-(1-Naphthyl) ethylenediamine dihydrochloride  
Skin irrit. 2; Eye irrit. 2A; H315, H319

Methanol  
Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370
4.1 Description of first aid measures

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**
Wash off with soap and plenty of water.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects: acute or delayed
The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment
Treat symptomatically

5.1 Extinguishing media
Use water spray, dry chemical, or carbon dioxide

5.2 Special hazards
Carbon oxides, Nitrogen Oxides, Hydrogen Chloride gas

SECTION 6: Accidental Release Measures

6.1 Personal precautions and personal protective equipment
Standard laboratory personal protective equipment should be utilized.

6.2 Environmental precautions
Do Not let product enter drains

6.3 Methods for containment and clean up
Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Follow standard Good Laboratory Practices while using this product.

7.2 Conditions for safe storage,
Keep amber container tightly closed. Recommended
SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
Methanol Value: TWA, control parameters: 200ppm

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment
Eye/face protection Use eye protection approved by NIOSH or EN166.

Skin protection Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection Respiratory protection is not required.

Control of environmental exposure Do not let product enter drains

SECTION 9: Physical and Chemical Properties

Appearance Clear colorless liquid
Odor No data available
Flammability No data available
Vapor Pressure No data available
Odor Threshold No data available
Vapor Density No data available
pH No data available
Relative Density No data available
Melting Point Not applicable
Freezing Point: No data available
Solubility: No data available
Boiling Point: No data available
Flash Point: No data available
Evaporation Rate: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical Stability: Stable under recommended storage conditions

10.3 Possibility of hazardous reactions: No data available

SECTION 11: Toxicological Information

11.1 Toxicity
Acute toxicity: No data available
Skin irritation: No data available
Serious eye damage or irritation: No data available
Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity: No data available
Specific target organ toxicity: No data available
Aspiration hazard: No data available

SECTION 12: Ecological Information
12.1 Toxicity: No data available
12.2 Persistence and degradability: No data available
12.3 Bioaccumulation potential: No data available
12.4 Mobility in Soil: No data available
12.5 Other adverse effects: With the available data, the substance is not harmful to the environment.

SECTION 13: Disposal Considerations
13.1 Waste treatment methods: Dispose of product with a licensed disposal company.

SECTION 14: Transport Information
14.1 US DOT: Not dangerous goods
14.2 IMDG: Not dangerous goods
14.3 IATA: Not dangerous goods

SECTION 15: Regulatory Information
No known regulatory requirements.

SECTION 16: Other Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
Revision date: 7-28-21
1.1 **Product Identification**

Product Name: NB78 NADPH Part A  
Product Number: NB78  
Brand: Oxford Biomedical Research

1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.  
PO Box 522  
Oxford, MI 48371  
USA  
Contact: 248-852-8815  
info@oxfordbiomed.com

1.3 **Relevant Uses**

Identified uses: Research Assay

1.4 **Emergency Contact Number**

Contact: 248-852-8815

2.1 **Classification of the substance or mixture**

Acute Toxicity inhalation (category 4), specific target organ toxicity-repeated exposure-inhalation (category 2) respiratory tract, short term acute aquatic hazard (category 3), Long term chronic aquatic hazard (category 3)

2.2 **GHS Label or Precautionary Statements**

Harmful if inhaled, may cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled, Harmful to aquatic life with long lasting effects

2.3 **Hazards not otherwise classified**

None

3.1 **Substances**: NADPH Part A (1mL)

Edetate Disodium Dihydrate  
Acute Tox. 4; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H332, H373, H402, H412

4.1 **Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Call a physician
In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 Most important symptoms and effects: acute or delayed
The most important symptoms/effects are listed in section 2 and 11

4.3 Recommendations for immediate medical care or special treatment
Treat symptomatically

5.1 Extinguishing media
Dry powder, dry sand

5.2 Special hazards
Hydrogen Chloride gas, magnesium oxide, carbon oxides, nitrogen oxides, sulfur oxides, not combustible, development of hazard vapors possible in the event of a fire

SECTION 6: Accidental Release Measures

6.1 Personal precautions and personal protective equipment
Standard laboratory personal protective equipment should be utilized.

6.2 Environmental precautions
Do Not let product enter drains

6.3 Methods for containment and clean up
Wipe with absorbent material and dispose of in suitable container.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Follow standard Good Laboratory Practices while using this product.

7.2 Conditions for safe storage, including any incompatibilities
Keep in amber container tightly closed. Recommended storage temperature is -20°C.
SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits
Contains no substances with occupational exposure limits

8.2 Exposure controls
Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment

Eye/face protection
Use eye protection approved by NIOSH or EN166.

Skin protection
Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

Body protection
Wear a lab coat in accordance to standard Good Laboratory Practices.

Respiratory protection
Respiratory protection is not required.

Control of environmental exposure
Do not let product enter drains

SECTION 9: Physical and Chemical Properties

Appearance
liquid

Odor
No data available

Flammability
No data available

Vapor Pressure
No data available

Odor Threshold
No data available

Vapor Density
No data available

pH
No data available

Relative Density
No data available

Melting Point
No data available

Freezing Point
No data available
Solubility  No data available
Boiling Point  No data available
Flash Point  No data available
Evaporation Rate:  No data available
Auto-ignition Temperature  No data available
Decomposition Temperature  No data available
Viscosity  No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity  No data available

10.2 Chemical Stability  Stable under recommended storage conditions

10.3 Possibility of hazardous reactions  Violent reactions possible with strong oxidizing agents

SECTION 11: Toxicological Information

11.1 Toxicity
  Acute toxicity  No data available

  Skin irritation  No data available

  Serious eye damage or irritation  No data available

  Respiratory or skin sensitization  No data available

  Germ cell mutagenicity  No data available

  Carcinogenicity  No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

  Reproductive toxicity  No data available

  Specific target organ toxicity  No data available
Aspiration hazard: No data available

SECTION 12: Ecological Information

12.1 Toxicity Slightly toxic to fish, daphnia, and other aquatic invertebrates

12.2 Persistence and degradability No data available

12.3 Bioaccumulation potential No data available

12.4 Mobility in Soil No data available

12.5 Other adverse effects Discharge into the environment must be avoided

SECTION 13: Disposal Considerations

13.1 Waste treatment methods Dispose of product with a licensed disposal company.

SECTION 14: Transport Information

14.1 US DOT Not dangerous goods
14.2 IMDG Not dangerous goods
14.3 IATA Not dangerous goods

SECTION 15: Regulatory Information

No known regulatory requirements.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

Revision date: 8-6-21
1.1 **Product Identification**

Product Name: NB78 NADPH Part B  
Product Number: NB78  
Brand: Oxford Biomedical Research

1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.  
PO Box 522  
Oxford, MI 48371  
USA  
Contact: 248-852-8815  
info@oxfordbiomed.com

1.3 **Relevant Uses**

Identified uses: Research Assay

1.4 **Emergency Contact Number**

Contact: 248-852-8815

2.1 **Classification of the substance or mixture**

Acute Toxicity oral (category 4), Acute Toxicity inhalation (category 4), Specific Target Organ Toxicity repeated exposure inhalation (category 2) respiratory tract, Short term acute aquatic hazard (category 3), Long term chronic aquatic hazard (category 3)

2.2 **GHS Label or Precautionary Statements**

Harmful if swallowed, harmful if inhaled, may cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled, harmful to aquatic life with long lasting effects

2.3 **Hazards not otherwise classified**

None

3.1 **Substances: NADPH Part B (1mL)**

<table>
<thead>
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<th>Substance</th>
<th>Acute Tox.</th>
<th>STOT RE</th>
<th>Aquatic Acute</th>
<th>Aquatic Chronic</th>
<th>H332</th>
<th>H373</th>
<th>H402</th>
<th>H412</th>
<th>H302</th>
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<tr>
<td>Edetate Disodium Dihydrate</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Tetrahydrobiopterin Dihydrochloride</td>
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<td></td>
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</tr>
</tbody>
</table>

4.1 **Description of first aid measures**

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Call a physician

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**4.2 Most important symptoms and effects: acute or delayed**
The most important symptoms/effects are listed in section 2 and 11

**4.3 Recommendations for immediate medical care or special treatment**
Treat symptomatically

**5.1 Extinguishing media**
Dry powder, water foam carbon dioxide

**5.2 Special hazards**
Combustible, carbon oxides, sulfur oxides, nitrogen oxides, hydrogen chloride gas,

**SECTION 6: Accidental Release Measures**

**6.1 Personal precautions and personal protective equipment**
Standard laboratory personal protective equipment should be utilized.

**6.2 Environmental precautions**
Do Not let product enter drains

**6.3 Methods for containment and clean up**
Wipe with absorbent material and dispose of in suitable container.

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling**
Follow standard Good Laboratory Practices while using this product.

**7.2 Conditions for safe storage,**
Keep in amber container tightly closed. Recommended
including any incompatibilities  storage temperature is -20°C.

SECTION 8: Exposure Controls/Personal Protection

8.1 OSHA Permissible Exposure Limits  Contains no substances with occupational exposure limits

8.2 Exposure controls  Follow standard Good Laboratory Practices while using this product.

8.3 Personal Protective Equipment

  Eye/face protection  Use eye protection approved by NIOSH or EN166.

  Skin protection  Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.

  Body protection  Wear a lab coat in accordance to standard Good Laboratory Practices.

  Respiratory protection  Respiratory protection is not required.

  Control of environmental exposure  Do not let product enter drains

SECTION 9: Physical and Chemical Properties

  Appearance  liquid
  Odor  No data available
  Flammability  No data available
  Vapor Pressure  No data available
  Odor Threshold  No data available
  Vapor Density  No data available
  pH  No data available
  Relative Density  No data available
  Melting Point  No data available
Freezing Point | No data available
Solubility | No data available
Boiling Point | No data available
Flash Point | No data available
Evaporation Rate: | No data available
Auto-ignition Temperature | No data available
Decomposition Temperature | No data available
Viscosity | No data available

**SECTION 10: Stability and Reactivity**

10.1 Reactivity | No data available

10.2 Chemical Stability | Stable under recommended storage conditions

10.3 Possibility of hazardous reactions | Violent reactions possible with strong oxidizing agents

**SECTION 11: Toxicological Information**

11.1 Toxicity
   Acute toxicity | No data available

   Skin irritation | No data available

   Serious eye damage or irritation | No data available

   Respiratory or skin sensitization | No data available

   Germ cell mutagenicity | No data available

   Carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

   Reproductive toxicity | No data available
Specific target organ toxicity  No data available

Aspiration hazard  No data available

SECTION 12: Ecological Information
12.1 Toxicity  Slightly toxic to fish, daphnia, and other aquatic invertebrates

12.2 Persistence and degradability  No data available

12.3 Bioaccumulation potential  No data available

12.4 Mobility in Soil  No data available

12.5 Other adverse effects  Discharge into the environment must be avoided

SECTION 13: Disposal Considerations
13.1 Waste treatment methods  Dispose of product with a licensed disposal company.

SECTION 14: Transport Information
14.1 US DOT  Not dangerous goods
14.2 IMDG  Not dangerous goods
14.3 IATA  Not dangerous goods

SECTION 15: Regulatory Information
No known regulatory requirements.

SECTION 16: Other Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
Revision date: 8-18-21