

Product Number: NB78
Product Name: Ultrasensitive
Colorimetric
assay
Revision: 210723

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

Appearance	Solid
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 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.
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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**

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
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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.
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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

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	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	
	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.
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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.
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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.
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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

including any incompatibilities storage temperature is 4°C. Light sensitive

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.
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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)

Edetate Disodium Dihydrate	Acute Tox. 4; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H332, H373, H402, H412
Tetrahydrobiopterin Dihydrochloride	Acute Tox. 4; H302

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