Oxford Biomedical Research
SUPERIOR SCIENCE. RELIABLE RESULTS.

Safety Data Sheet

Product Number:	NB98
Product Name:	Nitric Oxide Assay
Revision:	210608

1.1 Product Identification

Product Name:	NB98 Nitrate Reductase
Product Number:	NB98
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.

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: 6-8-21

1.1 Product Identification

Product Name:	NB98 Nitrate Reductase Buffer
Product Number:	NB98
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 (1.5mL)

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: 6-22-21

1.1 Product Identification

Product Name:	NB98 MOPS Buffer
Product Number:	NB98
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 Inhalation Toxicity - Dusts and Mists
Short term aquatic hazard
Specific target organ toxicity - (repeated exposure)
Long term aquatic hazard

2.2 GHS Label or Precautionary Statements

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

2.3 Hazards not otherwise classified

None

3.1 Substances MOPS Buffer (25mL)

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,

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	7.4
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	No data available
Serious eye damage or irritation	No eye irritation
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	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: LC50- Lepomis machrochirus- 41mg/l- 96h
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: 6-25-21

1.1 Product Identification

Product Name:	NB98 NADH
Product Number:	NB98
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 NADH (2mg)

No hazardous ingredients

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. 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.
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	White, yellow solid
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	Slightly soluble
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 dangerous reaction known under normal conditions of use
10.2	**Chemical Stability**	Stable under recommended storage conditions
10.3	**Possibility of hazardous reactions**	No dangerous reaction known under normal conditions of use

SECTION 11: Toxicological Information

11.1	**Toxicity**	
	Acute toxicity	Not classified based on available info
	Skin irritation	Not classified based on available info
	Serious eye damage or irritation	Not classified based on available info
	Respiratory or skin sensitization	No data available
	Germ cell mutagenicity	Not classified based on available info
	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	Not classified based on available info
	Specific target organ toxicity	Not classified based on available info
	Aspiration hazard	Not classified based on available info

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**	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: 6-25-21

1.1 Product Identification

Product Name:	NB98 Color Reagent 1
Product Number:	NB98
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: 7-21-21

1.1 Product Identification

Product Name:	NB98 Color Reagent 2
Product Number:	NB98
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: 7-23-21

1.1 Product Identification

Product Name:	NB98 Nitrate Standard
Product Number:	NB98
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

Oxidizing Solids (Category 3)

2.2 GHS Label or Precautionary Statements

May intensify fire; oxidizer, keep away from heat

2.3 Hazards not otherwise classified

None

3.1 Substances: Nitrate Standard (2mL)

No components need to be disclosed according to 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**	Dry powder, dry sand
5.2	**Special hazards**	Potassium oxides, Nitrogen Oxides. Not 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**	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**	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	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**	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: 7-23-21