1.1 Product Identification

Product Name:	FS50 Thiobarbituric Acid
Product Number:	FS50
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

Stench

3.1 **Substances:** TBA Indicator (2.5g bottle)

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**	Use water spray, dry chemical, or carbon dioxide
5.2	**Special hazards**	Carbon Oxides, Nitrogen Oxides, Sulphur Oxides

SECTION 6: Accidental Release Measures

6.1	**Personal precautions and personal protective equipment**	Standard laboratory personal protective equipment should be utilized. Avoid dust formation. Avoid breathing vapors, mist or gas
6.2	**Environmental precautions**	Do not let product enter drains
6.3	**Methods for containment and clean up**	Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: Handling and Storage

7.1	**Precautions for safe handling**	Follow standard Good Laboratory Practices while using this product. Provide appropriate ventilation at places where dust is formed.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep container tightly closed in a dry well ventilated place.

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 products enter drain

SECTION 9: Physical and Chemical Properties

Appearance	Light yellow powder
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	245°C
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 hazardous reactions known if used as intended.

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**	UN number: 3335 Class: 9 Packing Group: III

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: 3-17-21

1.1 Product Identification

Product Name:	FS50 Tosic Acid Reagent
Product Number:	FS50
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

Flammable liquid category 4

2.2 GHS Label or Precautionary Statements

Corrosive to metals, skin corrosive, serious eye damage, short-term aquatic hazard, long-term aquatic hazard

2.3 Hazards not otherwise classified

None

3.1 Substances: Tosic Acid Reagent (100mL)

DMSO	Flam Liq. 4: H227
p-Toluensulphonic acid monohydrate	Met. Corr. 1, Skin Corr. 1B, Eye dam. 1, Aquatic Acute 3, Aquatic Chronic 3; H290, H314, H318, 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, Sulphur Oxides Development of hazardous combustion gases or vapors possible

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. Avoid inhalation of vapor or mist Keep away from sources of ignition
7.2	**Conditions for safe storage, including any incompatibilities**	Keep in a bottle tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

8.1	**OSHA Permissible Exposure Limits**	
	DMSO	Nor more than 250ppm
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	Don't let products enter drains Prevent spillage or leakage

SECTION 9: Physical and Chemical Properties

Appearance	Clear/light yellow 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	Around 4°C
Solubility	No data available
Boiling Point	No data available
Flash Point	87°C
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**	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**	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: 3-17-21

1.1 Product Identification

Product Name:	FS50 MDA Standard
Product Number:	FS50
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

Skin Corrosion H314, Serious eye damage H318

2.2 GHS Label or Precautionary Statements

Can cause severe skin burn or eye damage

2.3 Hazards not otherwise classified

None

3.1 Substances: FS50 MDA Standard (2mL)

(E)-3-Oxoprop-1-en-1-olate; tetrabutylazanium	Skin Corr. 1B, Eye dam 1; H14, H318

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

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 a bottle tightly closed. Recommended storage temperature is 4°C.

SECTION 8: Exposure Controls/Personal Protection

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

	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	Don't let product enter 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	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**	Do 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**	This product is not classified as hazardous to the environment.
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**	Chemical safety assessment not required/conducted

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: 3-17-21