1.1 Product Identification
Product Name: FR40 Thiobarbituric Acid
Product Number: FR40
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 x 0.5g bottles)
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: 3-9-21
1.1 Product Identification
Product Name: FR40 Tosic Acid Reagent
Product Number: FR40
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 (40mL)
- DMSO Flam Liq. 4: H227
- monohydrate

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: 3-9-21
1.1 **Product Identification**
Product Name: FR40 MDA Standard
Product Number: FR40
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**: FR40 MDA Standard (100µL)
(E)-3-Oxoprop-1-en-1-olate; Skin Corr. 1B, Eye dam 1; H14, H318
tetrabutylazanium

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
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<tr>
<td>Odor Threshold</td>
<td>No data available</td>
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<tr>
<td>Vapor Density</td>
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<td>pH</td>
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<td>Solubility</td>
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<td>Boiling Point</td>
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<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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: 3-9-21