

**Product Name:** Beadlite <sup>™</sup> Rapid Colorimetric Thiol Quantitation Kit for Nanoparticles

Catalog Number: 5535

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Thiolite ™ 490	N/A	N/A	Solid	Moderate
Component B: Assay Buffer (10X)	N/A	N/A	Liquid	High
Component C: DMSO	67-68-5	N/A	Liquid	High



# Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers	
	Product name:	Beadlite ™ Rapid Colorimetric Thiol Quantitation Kit for Nanoparticles
	Product number:	5535
1.2	Relevant identified uses of the substance of	or mixture and uses advised against
	Identified uses:	For research use only. Not intended for diagnostic or therapeutic use.
1.3	Details of the supplier of the datasheet	
	Company:	AAT Bioquest, Inc.
	Address:	5775 W Las Positas Blvd, Pleasanton, CA 94588
	Telephone:	(408)-733-1055
	Fax:	(408)-733-1304
	Email:	info@aatbio.com
1.4	Emergency telephone number	
	Chemtrec (Within USA):	1-(800)-424-9300
	Chemtrec (Outside USA):	1-(703)-527-3887
Sec	tion 2: Hazard identifications	

### 2.1 Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### 2.2 Label elements

Signal word:	Not applicable
Hazard statements:	None
Symbols/Pictograms:	None
Precautionary statements - prevention:	Wash hands thoroughly after handling
Precautionary statements - response:	IF exposed concerned: Get medical advice/attention
Precautionary statements - storage:	None
Precautionary statements - disposal:	None

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC): None

#### 2.4 Other information

Other hazards:

None

### Section 3: Composition/information on ingredients

### 3.1 Substances

Chemical name:

CAS No.:

Molecular weight:

Formula:

### Section 4: First aid measures

### 4.1 First-aid measures General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any Eye contact: contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Consult a physician if necessary. Wash off immediately with soap and Skin contact: plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

Inhalation:Remove to fresh air If breathing is irregular or stopped, administer<br/>artificial respiration. Avoid direct contact with skin. Use a barrier to give<br/>mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may<br/>be necessary. Immediate medical attention is not required. Move to<br/>fresh air in case of accidental inhalation of vapors. If symptoms persist,<br/>call a physician.Ingestion:Do NOT induce vomiting. Rinse/clean mouth with water and drink plenty<br/>of water afterward. Never give anything by mouth to an unconscious

person. Consult a physician.

Use personal protective equipment.

Self-protection of the first aider:

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No information available.
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## 4.3 Indication of any immediate medical attention and special treatment needed

	Note to physicians:	Treat symptomatically.
Se	ction 5: Firefighting measures	
5.1	Suitable extinguishing media	
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media:	No information available.
5.2	Specific hazards arising from the chemical	
	Specific hazards arising from the chemical:	In the event of a fire and/or explosion, do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to the release of irritating and toxic gases and vapors.

Beadlite<sup>™</sup> Rapid Colorimetric Thiol Quantitation Kit for Nanoparticles

	Hazardous combustion products:	Carbon oxides, sulfur oxides
5.3	Explosion data	
	Sensitivity to mechanical impact:	No information available.
	Sensitivity to static discharge:	No information available.
5.4	Protective equipment and precautions for	r firefighters
	Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
See	ction 6: Accidental release measures	
6.1	Personal precautions, protective equipme	nt, and emergency procedures
	Personal precautions:	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
6.2	Environmental precautions	
	Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product

## 6.3 Methods and material for containment and cleaning up

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Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Use personal protective equipment as required. Cover powder spill with a plastic sheet or tarp to minimize spreading and keep the powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surfaces thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

from entering drains. Do not flush into surface water or sanitary sewer

system. See Section 12 for additional Ecological Information.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes, or clothing. Use personal protective
	equipment as required. Wash contaminated clothing before reuse. Do
	not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or
	smoke when using this product. Use with local exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep the container tightly closed in a dry and well-ventilated place.
	Recommended storage temperature is <-15°C. Minimize light exposure.
Incompatible materials:	None known based on information supplied.

## Section 8: Experimental controls/personal protection

#### 8.1 Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### 8.2 Appropriate engineering controls

Engineering controls:

Showers, eyewash stations, ventilation systems

### 8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Skin and body protection:	Tight sealing safety goggles. Face protection shield. Wear protective gloves and protective clothing.
Respiratory protection:	If exposure limits are exceeded, or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations:	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuff.

## Section 9: Physical and chemical properties

Physical state:	Solid
Solubility in water:	Moderate
Appearance:	No information available
Odor/odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	No information available
Boiling point:	No information available
Flashpoint:	No information available
Liquid density:	No information available
Evaporation rate:	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific gravity:	No information available
Water solubility:	No information available
Solubility in other solvents:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

## Section 10: Stability and reactivity

Reactivity:	No data available
Chemical stability:	May form explosive peroxides
Possibility of hazardous reactions:	None under normal processing
Hazardous polymerization:	No information available
Conditions to avoid:	Extremes of temperatures and direct sunlight
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides

## Section 11: Toxicological information

11.1 Information on likely routes of ex	posure
Inhalation:	No data available
Eye contact:	No data available
Skin contact:	No data available
Ingestion:	No data available
11.2 Information on toxicological effec	cts
Symptoms:	No information available
11.3 Delayed and immediate effects as	s well as chronic effects from short and long-term exposure
Chronic toxicity:	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
11.4 Numerical measures of toxicity - J	product information
Unknown acute toxicity:	No information available
Section 12: Ecological informatio	n
Ecotoxicity:	May cause long-lasting harmful effects to aquatic life.
Persistence and degradability:	No information available
Bioaccumulation:	No information available
Mobility:	No information available
Section 13: Disposal consideratio	on and a second s
Disposal of wastes:	Disposal should be in accordance with applicable regional, national an local laws and regulations.
Contaminated packaging:	Do not reuse container
Other information:	Waste codes should be assigned by the user based on the application for which the product was used.
Section 14: Transport informatio	n
DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

## Section 15: Regulatory information

## **15.1 International Inventories**

	US Toxic Substances Control Act (TSCA):	Not listed
	Canada (DSL/NDSL):	Not listed
	Europe (EINECS/ELINCS/NLP):	Not listed
	Australia (AICS):	Not listed
	South Korea (KECL):	Not listed
	China (IECSC):	Not listed
	Japan (ENCS):	Not listed
	Phillipines (PICCS):	Not listed
15.	2 US Federal Regulations	
	SARA 313:	Not listed
	SARA 311/312 components:	Not listed
	CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR122.21 and 40CFR 122.42).
15.	3 US State Regulations	
	California Proposition 65:	Not listed
	Massachusetts-RTK:	Not listed
	New Jersey-RTK:	Not listed
	Pennsylvania-RTK:	Not listed
	U.S. State Right-To-Know Regulations:	This product does not contain any substances regulated by state right- to-know regulations.
Se	ction 16: Other information	

### Section 16: Other information

### 16.1 HMIS

Health hazards:	-
Flammability:	-
Reactivity:	-
Personal protection:	-
16.2 NFPA	
Health hazards:	-
Flammability:	-
Stability:	-
Physical and chemical properties:	-

### 16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.



# Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers	
	Product name:	Thiolite™ 490
	Product number:	5535
1.2	Relevant identified uses of the substance of	or mixture and uses advised against
	Identified uses:	For research use only. Not intended for diagnostic or therapeutic use.
1.3	Details of the supplier of the datasheet	
	Company:	AAT Bioquest, Inc.
	Address:	5775 W Las Positas Blvd, Pleasanton, CA 94588
	Telephone:	(408)-733-1055
	Fax:	(408)-733-1304
	Email:	info@aatbio.com
1.4	Emergency telephone number	
	Chemtrec (Within USA):	1-(800)-424-9300
	Chemtrec (Outside USA):	1-(703)-527-3887
Section 2: Hazard identifications		

### 2.1 Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### 2.2 Label elements

Signal word:	Not applicable
Hazard statements:	None
Symbols/Pictograms:	None
Precautionary statements - prevention:	Wash hands thoroughly after handling
Precautionary statements - response:	IF exposed concerned: Get medical advice/attention
Precautionary statements - storage:	None
Precautionary statements - disposal:	None

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC): None

#### 2.4 Other information

Other hazards:

None

### Section 3: Composition/information on ingredients

### 3.1 Substances

Chemical name: CAS No.:

Molecular weight:

Formula:

Ingestion:

Self-protection of the first aider:

### Section 4: First aid measures

#### 4.1 First-aid measures General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any Eye contact: contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Skin contact: Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Inhalation: Remove to fresh air If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use a barrier to give

call a physician.

person. Consult a physician.

Use personal protective equipment.

mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist,

Do NOT induce vomiting. Rinse/clean mouth with water and drink plenty of water afterward. Never give anything by mouth to an unconscious

lead to the release of irritating and toxic gases and vapors.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

	Note to physicians:	Treat symptomatically.	
Sec	Section 5: Firefighting measures		
5.1	Suitable extinguishing media		
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
	Unsuitable extinguishing media:	No information available.	
5.2	Specific hazards arising from the chemical		
	Specific hazards arising from the chemical:	In the event of a fire and/or explosion, do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can	

Thiolite™ 490

	Hazardous combustion products:	Carbon oxides, sulfur oxides
5.3	Explosion data	
	Sensitivity to mechanical impact:	No information available.
	Sensitivity to static discharge:	No information available.
5.4	Protective equipment and precautions for	firefighters
	Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
See	ction 6: Accidental release measures	
6.1	Personal precautions, protective equipme	nt, and emergency procedures
	Personal precautions:	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
6.2	Environmental precautions	
	Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product

## 6.3 Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Use personal protective equipment as required. Cover powder spill with a plastic sheet or tarp to minimize spreading and keep the powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surfaces thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

from entering drains. Do not flush into surface water or sanitary sewer

system. See Section 12 for additional Ecological Information.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes, or clothing. Use personal protective
	equipment as required. Wash contaminated clothing before reuse. Do
	not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or
	smoke when using this product. Use with local exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep the container tightly closed in a dry and well-ventilated place.
	Recommended storage temperature is <-15°C. Minimize light exposure.
Incompatible materials:	None known based on information supplied.

## Section 8: Experimental controls/personal protection

### 8.1 Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### 8.2 Appropriate engineering controls

Engineering controls:

Showers, eyewash stations, ventilation systems

### 8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Skin and body protection:	Tight sealing safety goggles. Face protection shield. Wear protective gloves and protective clothing.
Respiratory protection:	If exposure limits are exceeded, or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations:	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuff.

## Section 9: Physical and chemical properties

Physical state:	Solid
Solubility in water:	Moderate
Appearance:	No information available
Odor/odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	No information available
Boiling point:	No information available
Flashpoint:	No information available
Liquid density:	No information available
Evaporation rate:	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific gravity:	No information available
Water solubility:	No information available
Solubility in other solvents:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

## Section 10: Stability and reactivity

Reactivity:	No data available
Chemical stability:	May form explosive peroxides
Possibility of hazardous reactions:	None under normal processing
Hazardous polymerization:	No information available
Conditions to avoid:	Extremes of temperatures and direct sunlight
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides

## Section 11: Toxicological information

11.1 Information on likely routes of ex	posure
Inhalation:	No data available
Eye contact:	No data available
Skin contact:	No data available
Ingestion:	No data available
11.2 Information on toxicological effec	cts
Symptoms:	No information available
11.3 Delayed and immediate effects as	s well as chronic effects from short and long-term exposure
Chronic toxicity:	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
11.4 Numerical measures of toxicity - J	product information
Unknown acute toxicity:	No information available
Section 12: Ecological informatio	n
Ecotoxicity:	May cause long-lasting harmful effects to aquatic life.
Persistence and degradability:	No information available
Bioaccumulation:	No information available
Mobility:	No information available
Section 13: Disposal consideratio	n
Disposal of wastes:	Disposal should be in accordance with applicable regional, national an local laws and regulations.
Contaminated packaging:	Do not reuse container
Other information:	Waste codes should be assigned by the user based on the application for which the product was used.
Section 14: Transport informatio	n
DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

## Section 15: Regulatory information

### **15.1 International Inventories**

	US Toxic Substances Control Act (TSCA):	Not listed
	Canada (DSL/NDSL):	Not listed
	Europe (EINECS/ELINCS/NLP):	Not listed
	Australia (AICS):	Not listed
	South Korea (KECL):	Not listed
	China (IECSC):	Not listed
	Japan (ENCS):	Not listed
	Phillipines (PICCS):	Not listed
15.2 US Federal Regulations		
	SARA 313:	Not listed
	SARA 311/312 components:	Not listed
	CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR122.21 and 40CFR 122.42).
15.	3 US State Regulations	
	California Proposition 65:	Not listed
	Massachusetts-RTK:	Not listed
	New Jersey-RTK:	Not listed
	Pennsylvania-RTK:	Not listed
	U.S. State Right-To-Know Regulations:	This product does not contain any substances regulated by state right- to-know regulations.
Se	ction 16: Other information	

### Section 16: Other information

### 16.1 HMIS

Health hazards:	-
Flammability:	-
Reactivity:	-
Personal protection:	-
16.2 NFPA	
Health hazards:	-
Flammability:	-
Stability:	-
Physical and chemical properties:	-

### 16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.



# Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers		
	Product name:	Assay Buffer	
	Product number:	5535	
1.2	Relevant identified uses of the substance of	or mixture and uses advised against	
	Identified uses:	For research use only. Not intended for diagnostic or therapeutic use.	
1.3	Details of the supplier of the datasheet		
	Company:	AAT Bioquest, Inc.	
	Address:	5775 W Las Positas Blvd, Pleasanton, CA 94588	
	Telephone:	(408)-733-1055	
	Fax:	(408)-733-1304	
	Email:	info@aatbio.com	
1.4	Emergency telephone number		
	Chemtrec (Within USA):	1-(800)-424-9300	
	Chemtrec (Outside USA):	1-(703)-527-3887	
Sec	Section 2: Hazard identifications		

### 2.1 Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### 2.2 Label elements

Signal word:	Not applicable
Hazard statements:	None
Symbols/Pictograms:	None
Precautionary statements - prevention:	Wash hands thoroughly after handling
Precautionary statements - response:	IF exposed concerned: Get medical advice/attention
Precautionary statements - storage:	None
Precautionary statements - disposal:	None

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC): None

#### 2.4 Other information

Other hazards:

None

## Section 3: Composition/information on ingredients

### 3.1 Substances

Chemical name: CAS No.:

Molecular weight:

Formula:

### Section 4: First aid measures

#### 4.1 First-aid measures General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any Eye contact: contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Skin contact: Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Inhalation: Remove to fresh air If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use a barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Ingestion: Do NOT induce vomiting. Rinse/clean mouth with water and drink plenty of water afterward. Never give anything by mouth to an unconscious

Self-protection of the first aider:

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

	Note to physicians:	Treat symptomatically.
Sec	ction 5: Firefighting measures	
5.1	Suitable extinguishing media	
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media:	No information available.
5.2	Specific hazards arising from the chemical	
	Specific hazards arising from the chemical:	In the event of a fire and/or explosion, do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to the release of irritating and toxic gases and vapors.

person. Consult a physician.

Use personal protective equipment.

	Hazardous combustion products:	Carbon oxides, sulfur oxides
5.3	Explosion data	
	Sensitivity to mechanical impact:	No information available.
	Sensitivity to static discharge:	No information available.
5.4	Protective equipment and precautions for	firefighters
	Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Se	ction 6: Accidental release measures	
6.1	Personal precautions, protective equipme	nt, and emergency procedures
	Personal precautions:	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
6.2	Environmental precautions	
	Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product

## 6.3 Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Use personal protective equipment as required. Cover powder spill with a plastic sheet or tarp to minimize spreading and keep the powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surfaces thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

from entering drains. Do not flush into surface water or sanitary sewer

system. See Section 12 for additional Ecological Information.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes, or clothing. Use personal protective
	equipment as required. Wash contaminated clothing before reuse. Do
	not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or
	smoke when using this product. Use with local exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep the container tightly closed in a dry and well-ventilated place.
	Recommended storage temperature is <-15°C.
Incompatible materials:	None known based on information supplied.

## Section 8: Experimental controls/personal protection

#### 8.1 Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### 8.2 Appropriate engineering controls

Engineering controls:

Showers, eyewash stations, ventilation systems

### 8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Skin and body protection:	Tight sealing safety goggles. Face protection shield. Wear protective gloves and protective clothing.
Respiratory protection:	If exposure limits are exceeded, or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations:	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuff.

## Section 9: Physical and chemical properties

· · · · ·	
Physical state:	Liquid
Solubility in water:	High
Appearance:	No information available
Odor/odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	No information available
Boiling point:	No information available
Flashpoint:	No information available
Liquid density:	No information available
Evaporation rate:	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific gravity:	No information available
Water solubility:	No information available
Solubility in other solvents:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

## Section 10: Stability and reactivity

Reactivity:	No data available
Chemical stability:	May form explosive peroxides
Possibility of hazardous reactions:	None under normal processing
Hazardous polymerization:	No information available
Conditions to avoid:	Extremes of temperatures and direct sunlight
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides

## Section 11: Toxicological information

11.1 Information on likely routes of ex	posure
Inhalation:	No data available
Eye contact:	No data available
Skin contact:	No data available
Ingestion:	No data available
11.2 Information on toxicological effec	ts
Symptoms:	No information available
11.3 Delayed and immediate effects as	s well as chronic effects from short and long-term exposure
Chronic toxicity:	Repeated contact may cause allergic reactions in very susceptible
	persons. Avoid repeated exposure.
11.4 Numerical measures of toxicity - ۱	product information
Unknown acute toxicity:	No information available
Section 12: Ecological information	n
Ecotoxicity:	May cause long-lasting harmful effects to aquatic life.
Persistence and degradability:	No information available
Bioaccumulation:	No information available
Mobility:	No information available
Section 13: Disposal consideratio	'n
Disposal of wastes:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging:	Do not reuse container
Other information:	Waste codes should be assigned by the user based on the application for which the product was used.
Section 14: Transport informatio	n
DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

## Section 15: Regulatory information

### **15.1 International Inventories**

	US Toxic Substances Control Act (TSCA):	Not listed
	Canada (DSL/NDSL):	Not listed
	Europe (EINECS/ELINCS/NLP):	Not listed
	Australia (AICS):	Not listed
	South Korea (KECL):	Not listed
	China (IECSC):	Not listed
	Japan (ENCS):	Not listed
	Phillipines (PICCS):	Not listed
15.	2 US Federal Regulations	
	SARA 313:	Not listed
	SARA 311/312 components:	Not listed
	CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR122.21 and 40CFR 122.42).
15.	3 US State Regulations	
	California Proposition 65:	Not listed
	Massachusetts-RTK:	Not listed
	New Jersey-RTK:	Not listed
	Pennsylvania-RTK:	Not listed
	U.S. State Right-To-Know Regulations:	This product does not contain any substances regulated by state right- to-know regulations.
Se	ction 16: Other information	

### Section 16: Other information

#### 16.1 HMIS

Health hazards:	-
Flammability:	-
Reactivity:	-
Personal protection:	-
16.2 NFPA	
Health hazards:	-
Flammability:	-
Stability:	-
Physical and chemical properties:	-

### **16.3 Further information**

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.



# Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

_		
1.1	Product identifiers	
	Product name:	DMSO
	Product number:	5535
1.2	Relevant identified uses of the substanc	e or mixture and uses advised against
	Identified uses:	For research use only. Not intended for diagnostic or therapeutic use.
1.3	Details of the supplier of the datasheet	
	Company:	AAT Bioquest, Inc.
	Address:	5775 W Las Positas Blvd, Pleasanton, CA 94588
	Telephone:	(408)-733-1055
	Fax:	(408)-733-1304
	Email:	info@aatbio.com
1.4	Emergency telephone number	
	Chemtrec (Within USA):	1-(800)-424-9300
	Chemtrec (Outside USA):	1-(703)-527-3887
Sec	ction 2: Hazard identifications	
2.1	Classification of the substance or mixtu	re
	Flammable liquids	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
2.2	Label elements	
	Signal word:	Warning
	Hazard statements:	H227 - Combustible liquid
		H315 - Causes skin irritation
		H319 - Causes serious eye irritation
	Symbols/Pictograms:	$\wedge$

	Precautionary statements - prevention:	Keep away from heat, hot surface, sparks, open flames and other
		ignition sources. No smoking.
		Wear protective gloves/protective clothing/eye protection/face
		protection/hearing protection. Wash hands thoroughly after handling.
		Wash hands thoroughly after handling. Do not touch eyes.
	Precautionary statements - response:	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to
		extinguish. IF ON SKIN: wash with plenty of water.
		Specific treatment (see on this label).
		If skin irritation occurs: Get medical help.
		Take off contaminated clothing and wash it before reuse.
		IF IN EYES: Rinse cautiously with water for several minutes. Remove
		contact lenses if present and easy to do - continue rinsing.
		If eye irritation persists: Get medical help.
	Precautionary statements - storage:	Store in a well-ventilated place.
	Precautionary statements - disposal:	Dispose of contents/container in accordance with
		local/regional/national/international regulation.
2.3	Hazards not otherwise classified (HNOC) o	or not covered by GHS
	Hazards not otherwise classified (HNOC):	None
2.4	Other information	
	Other hazards:	None
504	tion 3: Composition/information on	ingradiants
250	tion 5. Composition/information on	ווופו כעוכוונג
		0
3.1	Substances	
3.1	<b>Substances</b> Chemical name:	DMSO
3.1		
3.1	Chemical name:	DMSO
3.1	Chemical name: CAS No.:	DMSO
	Chemical name: CAS No.: Molecular weight:	DMSO 67-68-5
Sec	Chemical name: CAS No.: Molecular weight: Formula:	DMSO 67-68-5
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>:tion 4: First aid measures</b>	DMSO 67-68-5 C2H6OS
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures	DMSO 67-68-5
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures General advice:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing.
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures General advice:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any
Sec	Chemical name: CAS No.: Molecular weight: Formula: tion 4: First aid measures First-aid measures General advice:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>tion 4: First aid measures</b> <b>First-aid measures</b> General advice: Eye contact:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>tion 4: First aid measures</b> <b>First-aid measures</b> General advice: Eye contact:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Consult a physician if necessary. Wash off immediately with soap and
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>tion 4: First aid measures</b> <b>First-aid measures</b> General advice: Eye contact:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>tion 4: First aid measures</b> <b>First-aid measures</b> General advice: Eye contact:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical
Sec	Chemical name: CAS No.: Molecular weight: Formula: <b>tion 4: First aid measures</b> <b>First-aid measures</b> General advice: Eye contact:	DMSO 67-68-5 C2H6OS If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off

	Inhalation:	Remove to fresh air If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use a barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
	Ingestion:	Do NOT induce vomiting. Rinse/clean mouth with water and drink plenty of water afterward. Never give anything by mouth to an unconscious person. Consult a physician.
	Self-protection of the first aider:	Use personal protective equipment.
4.2	Most important symptoms and effects, bot	h acute and delayed
	Symptoms:	No information available.
4.3	Indication of any immediate medical atten	tion and special treatment needed
	Note to physicians:	Treat symptomatically.
Sec	tion 5: Firefighting measures	
5.1	Suitable extinguishing media	
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media:	No information available.
5.2	Specific hazards arising from the chemical	
	Specific hazards arising from the chemical:	In the event of a fire and/or explosion, do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to the release of irritating and toxic gases and vapors.
	Hazardous combustion products:	Carbon oxides, sulfur oxides
5.3	Explosion data	
	Sensitivity to mechanical impact:	No information available.
	Sensitivity to static discharge:	No information available.
5.4	Protective equipment and precautions for	firefighters
	Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Sec	tion 6: Accidental release measures	
6.1	Personal precautions, protective equipme	nt, and emergency procedures
	Personal precautions:	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
6.2	Environmental precautions	
	Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product

## 6.3 Methods and material for containment and cleaning up

from entering drains. Do not flush into surface water or sanitary sewer

system. See Section 12 for additional Ecological Information.

	Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
	Methods for cleaning up:	Use personal protective equipment as required. Cover powder spill with a plastic sheet or tarp to minimize spreading and keep the powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surfaces thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.
Sec	tion 7: Handling and storage	
7.1	Precautions for safe handling	
	Advice on safe handling:	Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.
7.2	Conditions for safe storage, including a	ny incompatibilities
	Storage conditions:	Keep the container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. May form explosive peroxides. Store under inert gas. Hygroscopic. Recommended storage temperature is < -15 °C.
	Incompatible materials:	None known based on information supplied.
Sec	tion 8: Experimental controls/pers	sonal protection
8.1	Control parameters	
	Exposure guidelines:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
8.2	Appropriate engineering controls	
	Engineering controls:	Showers, eyewash stations, ventilation systems
8.3	Individual protection measures, such a	s personal protective equipment
	Eye/face protection:	Tight sealing safety goggles. Face protection shield.
	Skin and body protection:	Wear protective gloves and protective clothing.
	Respiratory protection:	If exposure limits are exceeded, or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in
		accordance with current local regulations.

# Section 9: Physical and chemical properties

Physical state:	Liquid
Solubility in water:	High
Appearance:	No information available
Odor/odor threshold:	Odorless
pH:	8.5 (50/50 in water)
Melting point/freezing point:	18 °C (64 °F)
Boiling point:	189 °C (372 °F)
Flashpoint:	89 °C (192 °F) Closed Cup, 95 °C (203 °F) Open Cup
Liquid density:	1.1 g/mL
Evaporation rate:	No information available
Upper flammability limit:	28.5% (V)
Lower flammability limit:	3.0% - 3.5% (V)
Vapor pressure:	0.55 mbar (0.46 mmHg) at 20 °C (68 °F)
Vapor density:	2.70 - (Air = 1.0)
Specific gravity:	1.1 at 20 °C (68 °F) (water = 1)
Water solubility:	Completely miscible
Solubility in other solvents:	No information available
Partition coefficient:	-2.03 (log Pow)
Autoignition temperature:	300 - 302 °C (572 - 576 °F) at 1,013 hPa
Decomposition temperature:	>190 °C (>374 °F)
Viscosity:	2.0 mPas or cP at 25 °C (77 °F)
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

## Section 10: Stability and reactivity

Hazardous Polymerization will not occur.
The product is chemically stable under standard ambient conditions (room temperature) .
None under normal processing
No information available
Avoid heat, flames, and sparks. Prolonged heating above 150°C (302°F) can cause rapid, exothermic decomposition.
Organic and inorganic acid chlorides, strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.
Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide, dimethyl disulfide, and bis (methylthio) methane.

## Section 11: Toxicological information

## 11.1 Information on likely routes of exposure

Inhalation:	No data available
Eye contact:	No data available
Skin contact:	Acute dermal toxicity (LD50): 40000 mg/kg [Rat].

Ingestion:	Acute oral toxicity (LD50): 7920 (	mg/kg [Mouse].
11.2 Information on toxicological effects		
Symptoms:	No information available	
11.3 Delayed and immediate effects as well	as chronic effects from short and	d long-term exposure
Chronic toxicity:		ergic reactions in very susceptible
11.4 Numerical measures of toxicity - produ	uct information	
Unknown acute toxicity:	No information available	
Section 12: Ecological information		
Ecotoxicity:	Toxicity to fish LC50 – Pimephale mg/L-96h	es promelas (Fathead minnow) – 34,000
Persistence and degradability:	-	esults of tests of biodegradability this able. (OECD Test Guideline 301D)
Bioaccumulation:	No information available	
Mobility:	No information available	
Section 13: Disposal consideration		
Disposal of wastes:		e with applicable regional, national and ot allow product to reach ground water, n.
Contaminated packaging:	Do not reuse container	
Other information:	Waste codes should be assigned for which the product was used.	d by the user based on the application
Section 14: Transport information		
DOT:	Not a DOT controlled material.	
IMDG:	Not regulated	
IATA:	Not regulated	
Section 15: Regulatory information		
15.1 International Inventories		
US Toxic Substances Control Act (TSCA):	Listed	
Canada (DSL/NDSL):	Not listed	
Europe (EINECS/ELINCS/NLP):	Not listed	
Australia (AICS):	Not listed	
South Korea (KECL):	Not listed	
China (IECSC):	Not listed	
Japan (ENCS):	Not listed	
Phillipines (PICCS):	Not listed	
15.2 US Federal Regulations		
SARA 313:		ny chemical components with known reshold (De Minimis) reporting levels tion 313.
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SARA 311/312 components:	Fire Hazard, Chronic Health Hazard
CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR122.21 and 40CFR 122.42).
15.3 US State Regulations	
California Proposition 65:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Massachusetts-RTK:	No components are subject to the Massachusetts Right to Know Act.
New Jersey-RTK:	Dimethyl sulfoxide
Pennsylvania-RTK:	Dimethyl sulfoxide
U.S. State Right-To-Know Regulations:	This product does not contain any substances regulated by state right- to-know regulations.

### Section 16: Other information

### 16.1 HMIS

Health hazards:	-
Flammability:	2
Reactivity:	-
Personal protection:	-
16.2 NFPA	
Health hazards:	-
Flammability:	2
Stability:	-
Physical and chemical properties:	-

### **16.3 Further information**

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.