

# Safety Data Sheet (SDS)

**Product Name:** Amplite<sup>™</sup> Fluorimetric Mercuric Ion Quantitation Kit **Catalog Number:** 19005

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Mercury Lite™ 590	N/A	N/A	Solid	Moderate
Component B: Assay Buffer	N/A	N/A	Liquid	High
Component C: DMSO	67-68-5	N/A	Liquid	High



# Safety Data Sheet (SDS)

AAT Bioquest, Inc.

408-733-1055

408-733-1304

408-489-6491

info@aatbio.com

## 1. Product and Company Identification

- 1.1 Product identifiers
  - a. Product name:
  - b. Product number:
  - c. CAS number:

Amplite<sup>™</sup> Fluorimetric Mercuric Ion Quantitation Kit 19005 N/A

520 Mercury Drive, Sunnyvale, CA 94085

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Laboratory chemicals \*For Research Use Only\*
- 1.3 Details of the supplier of the data sheet
  - a. Company:
  - b. Telephone:
  - c. Fax:
  - d. E-Mail:
- 1.4 Emergency telephone number Emergency telephone number:

# 2. Hazards Identification

- 2.1 Classification
  - Not a hazardous substance or mixture
- 2.2 GHS label elements, including precautionary statements Not a hazardous substance or mixture
- 2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS None

# 2.4 Potential health effects

Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

a. Inhalation:	No data available (may be harmful by inahalation)
b. Ingestion:	No data available (may be harmful if swallowed)
c. Skin:	No data available (may cause skin irritation in susceptible persons)
d. Eyes:	No data available (may cause eye irritation in susceptible persons)
e. Chronic exposures:	No data available (potentially harmful)
f. Target organs:	No data available (potentially harmful)
g. Carcinogenic effects:	No data available (potentially harmful)
h. Mutagenic effect:	No data available (potentially harmful)
i. Reproductive toxicity:	No data available (potentially harmful)
j. Sensitization:	No data available (potentially harmful)

#### 3. Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Mercury Lite™ 590	N/A	N/A	Solid	Moderate
Component B: Assay Buffer	N/A	N/A	Liquid	High

### 4. First Aid and Measures

4.1 Skin contact

Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.



#### 4.2 Eye contact

Wash thoroughly after handling. If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

4.3 Ingestion

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

#### 4.4 Inhalation

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.

#### 4.5 Notes to physician

Treat symptomatically.

#### 5. Fire Fighting Measures

5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

#### 5.2 Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.3 Unusual fire and explosions hazards Emits toxic fumes under fire conditions.

#### 6. Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use appropriate protective equipment and methods to clean up spilled substances promptly.
- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so.
- 6.3 Methods for cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

# 7. Handling and Storage

- 7.1 Personal precautions, protective equipment and emergency procedures Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.
- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light.

# 8. Exposure Controls/Personal Protection

- 8.1 Control parameters Contains no substances with occupational exposure limit values.
- 8.2 Control parameters

a. Engineering measures:

- b. Personal protective equipment:
- 8.3 Environmental exposure control Prevent products from entering drains.

# 9. Physical and Chemical Properties

Odor/odor threshold:	
Specific gravity:	

General industrial hygeine practice.

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

No data available No data available



#### pH:

Boiling point: Melting point: Flash point: Vapor pressure: Vapor density: Relative density: Upper/lower flammability or explosive limits: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties:

# 10. Stability and Reactivity

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

#### **11. Toxicological Information**

Acute toxicity: Skin/corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity: Aspiration hazard: RTECS:

# **12. Ecological Information**

Ecotoxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment:

# 13. Disposal Consideration

Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

# 14. Transport Information

DOT (US):	Not dangerous goods
IMDG:	Not dangerous goods
IATA:	Not dangerous goods

# **15. Regulatory Information**

US Toxic Substances Control Act (TSCA): SARA 302 components:

Not listed Not listed

No data available Stable under recommended storage conditions No data available No data available No data available No data available

### No data available

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No data available (may cause skin irritation in susceptible persons) No data available (may cause eye irritation in susceptible persons) No data available (may be harmful by inhalation) No data available (potentially harmful) Not listed by NTP, IARC, or OSHA No data available No data available No data available No data available



SARA 313 components:	Not listed
SARA 311/312 components:	Not listed
EEC risk statements:	Not listed
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
California Proposition 65:	Not listed
16. Other Information	
16.1 HMIS Rating	
Health hazard	0
Flammability	0
Reactivity	0
16.2 NFPA Rating	
Health hazard	0
Flammability	0
Reactivity	0

#### 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 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 (SDS)

## 1. Product and Company Identification

1 Product identifiers	
a. Product name:	DMSO
b. Product number:	N/A
c. CAS number:	67-68-5

 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Identified uses:
 Laboratory chemicals \*For Research Use Only\*

1.3 Details of the supplier of the data sheet

- a. Company:
- b. Telephone:
- c. Fax:

1.

- d. E-Mail:
- 1.4 Emergency telephone number Emergency telephone number:

# 2. Hazards Identification

2.1 Classification

H227 Combustible liquid, H315 Causes Skin irritation, H319 Causes serious eye irritation

- 2.2 GHS label elements, including precautionary statements H227 Combustible liquid, H315 Causes Skin irritation, H319 Causes serious eye irritation
- 2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS None

# 2.4 Potential health effects

Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

a. Inhalation:	High vapor concentrations may cause headache, dizziness, and sedation
b. Ingestion:	No data available (may be harmful if swallowed)
c. Skin:	Causes irritation to the skin.
d. Eyes:	Causes irritation to the eyes.
e. Chronic exposures:	No data available (potentially harmful)
f. Target organs:	No data available (potentially harmful)
g. Carcinogenic effects:	No data available (potentially harmful)
h. Mutagenic effect:	Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, liver, mucous membranes, skin, eyes
i. Reproductive toxicity:	No data available (potentially harmful)
j. Sensitization:	No data available (potentially harmful)

#### 3. Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#
Component C: DMSO	67-68-5	N/A

AAT Bioquest, Inc. 520 Mercury Drive, Sunnyvale, CA 94085 408-733-1055 408-733-1304 info@aatbio.com

408-489-6491



## 4. First Aid and Measures

#### 4.1 Skin contact

Remove contaminated clothing. Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.

#### 4.2 Eye contact

Wash thoroughly after handling. If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

#### 4.3 Ingestion

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

#### 4.4 Inhalation

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.

#### 4.5 Notes to physician

Treat symptomatically.

#### 5. Fire Fighting Measures

5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

#### 5.2 Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.3 Unusual fire and explosions hazards

Emits toxic fumes under fire conditions.

#### 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of mist formation use a respirator or self-contained breathing apparatus (SCBA). Use appropriate protective equipment and methods to clean up spilled substances promptly.

- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so.
- 6.3 Methods for cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

#### 7. Handling and Storage

- 7.1 Personal precautions, protective equipment and emergency procedures Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.
- 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light. Keep away from ignition sources.

#### 8. Exposure Controls/Personal Protection

8.1 Control parameters Contains no substances with occupational exposure limit values.

8.2 Control parameters a. Engineering measures:	General industrial hygeine practice.
b. Personal protective equipment:	Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.
8.3 Environmental exposure control	



Prevent products from entering drains.

#### 9. Physical and Chemical Properties

Appearance: Solubility in water: Odor/odor threshold: Specific gravity: pH: Boiling point: Melting point: Flash point: Vapor pressure: Vapor density: Relative density: Upper/lower flammability or explosive limits: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties:

#### 10. Stability and Reactivity

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid:

Incompatible materials:

Hazardous decomposition products:

# 11. Toxicological Information

Acute toxicity:

Skin/corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity: Aspiration hazard: RTECS:

### **12. Ecological Information**

Ecotoxicity:

Persistence and degradability:

Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assessment:

13. Disposal Consideration

Liquid High Odorless 1.1 @ 20°C (68°F) (water=1) 8.5 (50/50 in water) 189°C (372.2°F) 18°C (64°F) 89°C (192°F) Closed Cup, 95°C (203°F) Open Cup 0.55 mbar (0.46 mmHg) @ 20°C (68°F) No data available Lower Explosive Limit: 3.0-3.5% by volume -2.03 (log Pow) 300-302°C (572-575°F) > 190 °C (> 374 °F) 2.0 mPas or cP (@ 25°C/77°F) Product does not present an explosion hazard. The substance or mixture is not classified as oxidizing.

Hazardous Polymerization will not occur. Stable under recommended storage conditions No data 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.

Acute oral toxicity (LD50): 7920 mg/kg [Mouse]. Acute dermal toxicity (LD50): 40000 mg/kg [Rat].

#### 2 2 No

No data available (may be harmful by inhalation) No data available (potentially harmful) Not listed by NTP, IARC, or OSHA Affects fertility, mortality, and development of fetuses in rats. No data available No data available PV6210000

Toxicity to fish LC50 – Pimephales promelas (Fathead minnow) – 34,000 mg/L-96h Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301D) No data available No data available This product contains no PBT/vPvB chemicals.



Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

#### 14. Transport Information

DOT (US):	Not a DOT controlled material.
IMDG:	Not dangerous goods
ΙΑΤΑ:	Not dangerous goods
15. Regulatory Information	
US Toxic Substances Control Act (TSCA):	Not listed
SARA 302 components:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 components:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 components:	Fire Hazard, Chronic Health Hazard
EEC risk statements:	Not listed
Massachusetts-RTK:	No components are subject to the Massachusetts Right to Know Act.
New Jersey-RTK:	Dimethyl sulfoxide
Pennsylvania-RTK:	Dimethyl sulfoxide
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.
16. Other Information	
16.1 HMIS Rating	
Health hazard	0
Flammability	2
Reactivity	0
16.2 NFPA Rating	
Health hazard	0
	-

16.3 Further information

Flammability

Reactivity

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 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.

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