

Safety Data Sheet- AimTab™ Reducing Substance Tablets

24-13336TD-2, Rev. A

APP'D 1/13/16

1. Identification of the Substance

Product Name: AimTab™ Reducing Substance Tablets

Product Number: 13336

Recommended Use: In vitro diagnostic reagent

Distributor Information: Germaine Laboratories, Inc.

11030 Wye Drive

San Antonio, Texas 78217

(210) 692-4192

Emergency Telephone: 1-800-854-8446

2. Composition/Hazardous Ingredients:

<u>CAS-No./EINECS-No.</u>	<u>Chemical Name</u>	<u>Amount</u>
7758-98-7	Copper sulphate anhydrous	1 - 5%
1310-73-2	Sodium hydroxide	30 - 60%

3. Critical Hazards:

- A. Color: blue
- B. Form: solid tablet
- C. Odor: odorless

Corrosive, when wet or dissolved can cause burns to the eyes and skin. Tablets are highly sensitive to moisture from air or water. Moisture may cause a chemical reaction and the glass bottle could explode.

Hazard Communication (29CFR 1910.1200): No Carcinogenic substances as defined by IARC, NTP and/or OSHA

4. Emergency First Aid Procedures:

- A. General advice: Call a physician immediately. Arrange for transport to nearest emergency room.
- B. If inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- C. Skin Contact: After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use.
- D. Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- E. If swallowed: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Give two glasses of water or milk for dilution.

5. Fire and Explosion Hazard Data

- A. Suitable extinguishing media: Any
- B. Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)
- C. Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- D. Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures:

- A. Personal precautions: Use personal protective equipment.
- B. Methods for cleaning up: Place in closed containers. Label for proper disposal.

7. Handling and Storage: Avoid contact with skin, eyes and clothing. Store at temperatures and conditions as indicated on the product label. Keep container tightly closed. Avoid contact with moisture/water. Moisture may cause a chemical reaction and the glass bottle could explode.

8. Personal Protection

- A. Respiratory protection: not required
- B. Hand protection: Chemically resistant gloves.
- C. Eye protection: Chemical safety goggles or glasses.
- D. Other protective measures: Wear suitable protective equipment.

9. Physical Data

- A. Form: tablet
- B. Color: blue
- C. Odor: odorless
- D. Density: no data available
- E. Bulk density: no data available
- F. Vapor pressure: not applicable
- G. Water solubility: soluble

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- H. pH: Wet tablets are corrosive - prevent contact.
- I. Partition coefficient (n-octanol/water): no data available
- J. Solubility in organic solvents: no data available
- K. Flash point: not applicable
- L. Ignition temperature: not applicable

10. Reactivity Data:

- A. Conditions to avoid: Exposure to moisture
- B. Materials to avoid: Strong acids, Metals, halogens
Action of humidity leads to formation of heat and overpressure., Protect from moisture.
- C. Hazardous reactions: Decomposes in contact with water. Corrosive in contact with metals
- D. Thermal decomposition: no data available
- E. Hazardous decomposition products: Carbon monoxide, Carbon dioxide (CO₂)

11. Toxicological Information

- A. Other information on toxicity: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- B. Acute oral toxicity: Copper sulphate anhydrous.
LD50 rat: 300 mg/kg.
LDLO human: 50 mg/kg
- C. Acute inhalation toxicity: Inhalation of mist or dried residue causes irritation of respiratory system.
- D. Skin irritation: Acute dermal irritation/corrosion
- E. Eye irritation: May cause eye and skin irritation. Risk of blindness !
- F. Genotoxicity in vitro:
Bacterial mutagenicity Escherichia coli. Result: negative
Copper sulphate anhydrous Micronucleus test. Result: negative, No indication of mutagenic effects.
Bacterial mutagenicity Escherichia coli. Result: negative, No indication of mutagenic effects.

11. Ecological Information:

- A. General advice: Do not allow to enter surface waters or groundwater.
- B. Toxicity to fish:
Acute Fish toxicity: LC50 45.4 mg/l. Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h
Acute Fish toxicity: LC50 99 mg/l. Test species: Lepomis macrochirus (Bluegill) Duration of test: 48 h
Copper sulphate anhydrous: LC50 0.11 mg/l. Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h
- C. Toxicity to daphnia and other aquatic invertebrates:
EC50 76 mg/l. Test species: Daphnia magna (Water flea) Duration of test: 24 h
Copper sulphate anhydrous. EC50 0.024 mg/l. Test species: Daphnia magna (Water flea) Duration of test: 48 h
- D. Toxicity to algae:
Copper sulphate anhydrous. EC50 0.1 mg/l. Tested on: Scenedesmus quadricauda (Green algae) Duration of test: 4 h
- E. Biodegradability:
The methods for determining biodegradability are not applicable to inorganic substances.
Copper sulphate anhydrous
The methods for determining biodegradability are not applicable to inorganic substances.

13. Disposal Information

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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14. Transportation Information (IATA Regulations)

A. Land transport (DOT)

Proper shipping name: Sodium hydroxide, solid

Hazard Class or Division: 8

UN/NA Number: UN1823

Packaging group: II

Hazard Label(s): Corrosive

B. Inland waterway transport

Proper shipping name: Sodium hydroxide, solid

Hazard Class or Division: 8

UN/NA Number: UN1823

Packaging group: II

Hazard Label(s): Corrosive

C. Railway transport

Proper shipping name: Sodium hydroxide, solid

Hazard Class or Division: 8

UN/NA Number: UN1823

Packaging group: II

Hazard Label(s): Corrosive

D. Sea transport (IMDG)

Proper shipping name: SODIUM HYDROXIDE, SOLID

Hazard Class or Division: 8

UN-Number: UN1823

Packaging group: II

Hazard Label(s): CORROSIVE

Marine pollutant: Marine pollutant

E. Air transport (ICAO / IATA cargo aircraft only)

Proper shipping name: Sodium hydroxide, solid

Hazard Class or Division: 8

UN-Number: UN1823

Packaging group: II

Hazard Label(s): CORROSIVE

F. Air transport (ICAO / IATA passenger and cargo aircraft)

Proper shipping name: Sodium hydroxide, solid

Hazard Class or Division: 8

UN-Number: UN1823

Packaging group: II

Hazard Label(s): CORROSIVE

15. Other Regulatory Information

A. US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:

none

B. US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:

Copper sulphate anhydrous

C. US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:

Copper sulphate anhydrous Reportable quantity: 10 lbs

Sodium hydroxide Reportable quantity: 1000 lbs

D. Marine pollutant Components:

Copper sulphate anhydrous severe marine pollutant

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E. Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Copper sulphate anhydrous	7758-98-7
30 - 60%	Sodium hydroxide	1310-73-2

F. New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Copper sulphate anhydrous	7758-98-7

G. California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating: Hazardous

16. Other Information

The opinions expressed herein are those of qualified experts within Germaine Laboratories, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and these opinions and conditions of use of the product are not within the control of Germaine Laboratories, it is the users' obligation to assure safe of the product.