

# Material Safety Data Sheet

## I. Identification of Substance:

Items	Materials	48 Wells	96 Wells
1	Microelisa Stripplate	48 well plate	96 well plate
2	Standards	0.5ml×6 vials	0.5ml×6 vials
3	Sample Diluent	3.0ml	6.0ml
4	HRP-Conjugate Reagent	5.0ml	10.0ml
5	20×Wash Solution	15ml	25ml
6	Stop Solution	3.0ml	6.0ml
7	Chromogen Solution A	3.0ml	6.0ml
8	Chromogen Solution B	3.0ml	6.0ml
9	Closure Plate Membrane	2	2
10	Instruction	1	1

- **Product Name:** Mouse Troponin T Type 2, Cardiac (TNNT2) Enzyme-Linked Immunosorbent Assay Kit
- **Catalog Number:** MBS9308054
- **Application of the product:** For lab reagent/research use only!

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## II. Hazard Identification:

- The physical, chemical and toxicological properties of these components have not been fully investigated.
- It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves, and protective clothing. Direct physical contact with all components in this product should be avoided.

Known Hazardous Components
ProClin 300
Sulfuric Acid

## III. Information on Ingredients:

Materials	CAS Number	Percent
ProClin 300	96118-96-6	0.01%-0.1%
Sulfuric Acid	7664-93-9	0.8 mol/L

## IV. First Aid Measures:

- **IF IN EYES:** Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.
- **IF ON SKIN (or hair):** Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.
- **IF INHALED:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

- **IF SWALLOWED:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.
- **Potential acute / delayed health effects:**
  - **Eye contact:** Causes serious eye irritation / causes burns
  - **Skin contact:** Causes skin irritation / causes burns
  - **Inhalation:** Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
  - **Ingestion:** Harmful if swallowed. Irritating to mouth, throat and stomach. / Causes burns
- **Notes to physician:** Consult a physician. Show this safety data sheet to the doctor in attendance.

## V. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Hazards from the substance or mixture:** In case of fire, toxic and corrosive gases may be formed.
- **Special precautions for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## VI. Accidental Release Measures:

- **Person-related safety precautions:** Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Keep away from drains.
- **Measures for containment and cleaning:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## VII. Handling and Storage:

- **Precautions for safe handling:** Avoid inhalation of vapor or mist. Use normal measures for preventive fire protection.
- **Conditions for safe storage:** Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Requirements for storage rooms and vessels:** Prevent direct sunlight and heat. Store in well aired storage rooms.

Further information on storage conditions:

- **Storage temperature:** 2°C - 4°C **Storage stability:** stable.
- **Maximal storage period:** 6 months.

## VIII. Exposure Controls and Personal Protection:

- **Control parameters:** Contains no substances with occupational exposure limit values
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
  - **Eye/face protection:** Wear approved safety goggles.
  - **Skin/hand protection:** Handle with protective gloves, plastic or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
  - **Body protection:** Wear suitable protective clothing as protection against splashing or contamination.

- **Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
- **Respiratory protection:** In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## IX. Physical and Chemical Properties:

Substrate Solution		Stop Solution	
Physical State:	Liquid	Physical State:	Liquid
Color:	Yellowish or bluish	Color:	Colorless
Odor:	Odorless	Odor:	Odorless
pH (20 °C):	About pH 3, acid	pH (20 °C):	About pH 2, acid
Melting Point (°C):	N/A	Melting Point (°C):	About 150°C
Boiling Point (°C):	N/A	Boiling Point (°C):	N/A
Ignition temperature (°C):	N/A	Ignition temperature (°C):	N/A
Vapor Pressure:	N/A	Vapor Pressure:	N/A
Density:	N/A	Density:	N/A
Water solubility:	Very well soluble	Water solubility:	Very well soluble
Viscosity, dynamic (mPa s):	N/A	Viscosity, dynamic (mPa s):	N/A
Explosion limits:	Mixture is not explosive	Explosion limits:	Mixture is not explosive

## X. Stability and Reactivity:

- **Conditions to avoid:** Direct sunlight, high temperature. There's no dangerous reaction but the Substrate Solution will be defective.
- **Substrate Solution:** Heavy metal salt. There's no dangerous reaction but the Substrate Solution will be defective.
- **Stop Solution:** Bases (cause heat development), powdery metals (heat development and dynamics of the reaction depends on the acid concentration).

## XI. Toxicological Information:

- **Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion
- **Effects of acute exposure to Product:** Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat. Poison may be fatal if swallowed, causes burns.
- **Effects of chronic exposure to Product:** Long term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

## XII. Ecological Information:

- **Ecotoxicity:** This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Do not allow product to reach ground water, water course, or sewage system.
- **Biodegradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Other adverse effects:** No data available.

## XIII. Disposal Considerations:

- **Waste disposal:** dispose of in accordance with local official environmental regulations.

#### **XIV. Transportation Information:**

- **Road / Railway Haulage ADR/RID:** Not restricted.
- **Sea Freight IMO (IMDG):** Not restricted.
- **Air Freight IATA (ICAO):** Not restricted.
- **UN Number:** Not applicable.
- **Official transport designation:** Substrate Solution, Stop Solution, and Research reagents because product is no dangerous good, no specific codes or labels are necessary.
- **Labeling:** Observe the general safety regulations when handling chemicals. The product has been classified and marked.
- **Code letter and hazard designation of product:** C Corrosive

#### **XV. Regulations:**

- The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. MyBioSource, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

#### **XVI. Other Information:**

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.