

Safety Data Sheet

MTM1 antibody

Cat#: orb37042

Revision Date: 22-Jun-2016

Product Identification

Synonyms: None.

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

Product Codes: AP, AM Antibodies series.

Ingredients

Ingredient	Conc.	Hazardous
Potassium Phosphate Monobasic	1.5 mM	No
Sodium Phosphate, Dibasic	8 mM	No
Potassium Chloride	2.7 mM	No
Sodium Chloride	136 mM	No
Sodium Azide	0.09%	Yes
Protein (antibody)	0.25 mg/ml	No
Water	>97%	No

Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Odor: No information found.

Solubility: Complete (100%)

Specific Gravity: No information found.

pH: 7.4

Volatiles by volume @ 21C (70F): ca. 97

Boiling Point: Not applicable

Melting Point: Not applicable

Vapor Density (Air=1): Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Evaporation Rate (BuAc=1): No information found.

Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece pressure mode.

Hazards Identification

Product contains sodium azide. Hazards for manipulating sodium azide are described below:

Ratings

Health Rating: 2 - Moderate

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Orange (General Storage)

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Inhalation of concentrated vapors may cause headache, dizziness, and drowsiness.

Ingestion: Sodium azide is highly toxic, affecting the central nervous system, kidneys and cardiovascular system. Dilute solutions are expected to be less toxic. Symptoms may include headache, nausea, vomiting, dizziness and gastrointestinal irritation.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.

Eye Contact: Causes irritation, redness, pain, and blurred vision.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

Toxicology

27 mg/kg oral rat LD50; 20 mg/kg skin rabbit LD50; investigated as a tumorigenic and mutagen.

First Aid Measures

Product contains sodium azide. First aid measures for sodium azide are described below: **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Accidental ingestion of sodium azide is potentially life threatening.

Treatment includes gastric lavage, followed by saline catharsis. EKG and blood pressure monitoring and support are recommended.

Accidental Release Measures

Spill or release: wear lab coat, chemical resistant gloves and safety glasses. Wipe up spill with a suitable absorbant and dispose of properly. Wash down the spill site.

Waste disposal method: Dispose of in accordance with all federal, state and local regulations.

Handling and Storage

Respiratory protection: Not required. Use mechanical exhaust.

Ventilation: Use mechanical exhaust.

Protective equipment: Good laboratory practices should always be used. Wear suitable protective clothing, chemical resistant gloves and lab safety glasses.

Storage: Store at -20C. Keep in a tightly closed container. Protect against physical damage.

CAUTION: Product contains Sodium Azide as a preservative. Do not allow product to evaporate to dryness. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Hydrazoic acid fumes (explosion hazard), and oxides of phosphorus, sodium and nitrogen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids and strong oxidizers. For Sodium Azide: Benzoyl chloride + potassium hydroxide, bromine, carbon disulfide, chromyl chloride, copper, dibromalonitrile, dimethyl sulfate, lead, barium carbonate, sulfuric acid, water, and nitric acid.

Conditions to Avoid: Heat, incompatibles.

Special Precautions

This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. This compound is sold only



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in milligram quantities for use in biochemical research. No other use is intended, and any other use may involve substantial hazards.

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