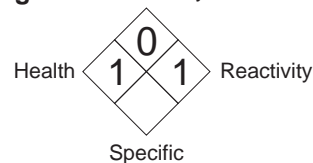




NFPA Ratings

Flammability



MATERIAL SAFETY DATA SHEET

FINQUEL[®] (MS-222)

SECTION I - PRODUCT IDENTIFICATION

DATE: April 21, 2009

PRODUCT NAME AND SYNONYMS: Finquel, 3-aminobenzoic acid ethyl ester methanesulfonate, Ethyl M-aminobenzoate, methanesulfonic acid salt, MS-222, Tricaine

CAS NO. AND NAME: CAS # 886-86-2, Tricaine Methane Sulfonate

CHEMICAL FAMILY: Anesthetic

CHEMICAL FORMULA: C₁₀H₁₅NO₅S

MANUFACTURER'S NAME AND ADDRESS: ARGENT CHEMICAL LABORATORIES
8702 - 152ND Ave. NE
Redmond, WA. 98052
(425) 885-3777

EMERGENCY TELEPHONE NUMBER: (800) 451-8346 USA ONLY
(760) 602-8700 OUTSIDE USA

SECTION II - HAZARDOUS COMPONENTS

COMPONENTS: Tricaine Methane Sulfonate

CAS #: 886-86-2

% BY WEIGHT: Not established

ACGIH TLV[®]: Not established

OSHA PEL: Not established

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: White powder with slight to no odor

MOLECULAR WEIGHT: 261.31

BOILING POINT (degrees Fahrenheit): Not applicable

MELTING POINT (degrees Fahrenheit): 300° - 302° (149° - 150° C)

VAPOR PRESSURE (mm of Mercury): Not available

SPECIFIC GRAVITY (water = 1): Not available

VAPOR DEBSITY (air = 1): Not available

PERCENT VOLATILE (by weight): Not available

pH: Not available

SOLUBILITY IN WATER: 1g/0.8 ml at 20° C

EVAPORATION RATE (Butyl Acetate = 1): Not available

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (degrees Fahrenheit, Setflash ASTM D3278-78): N/A

FIRE EXTINGUISHING MEDIA: Use water spray, carbon dioxide, dry chemical powder alcohol or polymer foam.

FLAMMABLE LIMITS (percent by volume): N/A

LOWER: N/A

UPPER: N/A

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits oxides, sulfur oxides, carbon monoxide and carbon dioxide.

SECTION V - REACTIVITY DATA

STABILITY: UNSTABLE: () STABLE: (X)

CONDITIONS TO AVOID: None

INCOMPATIBILITY (material to avoid): Acids, acid chlorides, acid anhydrides, chloroformates, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of nitrogen oxides, sulfur oxides, carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATON: WILL OCCUR: () WILL NOT OCCUR: (X)

CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD INFORMATION

EXPOSURE FROM ROUTINE USE: May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract.

EFFECTS OF OVEREXPOSURE: Not known

PROBABLE ROUTE OF EXPOSURE: Inhalation, skin, eyes, and ingestion.

EYE CONTACT: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing, wash affected area with soap and water. If irritation occurs, seek medical attention. Launder clothing before reuse.

INHALATION: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

INGESTION: Wash out mouth with water provided person is conscious. Call a physician.

SECTION VII - TOXICITY DATA

ORAL: Not available

DERMAL: Not available

INTRAVENOUSLY: Frog: LDLo 250 mg/kg
Mouse: LD50 180 mg/kg

CARCINOGENICITY: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

OTHER PERTINENT DATA: None

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTION EQUIPMENT

PROTECTIVE GLOVES: Chemical resistant rubber or neoprene.

EYE PROTECTION: Chemical safety goggles.

RESPIRATORY PROTECTION (specific type): Self contained breathing apparatus or NIOSH / OSHA approved respirator.

OTHER PROTECTIVE EQUIPMENT: Impervious clothing to minimize prolonged or repeated contact.

VENTILATION

LOCAL EXHAUST: Not applicable

MECHANICAL (general): Required

SPECIAL: None

SECTION IX - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear self contained breathing apparatus or NIOSH / OSHA approved respirator, rubber boots and chemical resistant gloves. Sweep up spilled materials and hold for waste disposal in appropriate container. Avoid raising dust. Ventilate spill area and wash after pick-up is complete.

WASTE DISPOSAL METHODS: Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an after-burner and scrubber. Observe all Federal, State and Local laws.

CLEAN WATER ACT REQUIREMENTS: None

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: None

SECTION X - REGULATORY INFORMATION

TSCA: This product is registered on the inventory.

DOT: Not DOT regulated.

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

LABEL REQUIRED: N/A

IDENTIFICATION NUMBER: N/A

OTHER PERTINENT INFORMATION: N/A

SECTION XI - SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

- Wear appropriate NIOSH / OSHA approved respirator.
- Wear neoprene or rubber gloves.
- Wear safety goggles.
- Use with safety shower and eye bath close.
- Avoid breathing dust.
- Avoid contact with eyes, skin and clothing.
- Wash thoroughly after handling.
- Store in a cool, dry and dark place as material is photosensitive.

OTHER PRECAUTIONS: Working with solutions of Finquel according to label directions does not pose any known health hazards, however we advise the use of proper safe guards in any situation where chemicals are handled.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING (HMIS):

Health (1) Flammability (0) Reactivity (1)

REGISTRATIONS / CERTIFICATIONS:

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and Local laws and regulations. ARGENT MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. Argent will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.