

M-NINEVAX - C**Schering-Plough Animal Health****Telephone: (800) 932-0473****P.O. Box 529****Kenilworth, NJ 07033****Company Contact: Animal Health Tech. Services****Telephone Number: (800) 932-0473****Emergency Contact: Schering-Plough****Emergency Phone Number: (908) 820-6222****IDENTIFICATION**

Product: M-NINEVAX - C

CAS Number: Not Established

Chemical Family: N/A

Chemical Formula: N/A

Hazard Rating - Health:	1 Slight
- Fire:	1 Slight
- Reactivity:	0 Negligible

CHEMICAL COMPONENTS

Component: N-Z-AMINE AS

CAS No.: Not Established % of Mixture: 2.6

OSHA PEL NONE

ACGIH TLV NONE

Component: PASTEURELLA MULTOCIDA

CAS No.: Not Established % of Mixture: 2.4

OSHA PEL NONE

ACGIH TLV NONE

Component: SUCROSE

CAS No.: 57-50-1 % of Mixture: 5.0

OSHA PEL NONE

ACGIH TLV NONE

Component: WATER

CAS No.: 7732-18-5

OSHA PEL NONE

ACGIH TLV NONE

PHYSICAL DATA

Boiling Point: N/A C

Melting Point: N/A C

Vapor Pressure: N/A

Specific Gravity: N/A

Solubility (H₂O): N/A

Percent Volatiles: N/A

Evaporation Rate: N/A

Appearance: Brownish-white powder.

Odor: Odorless.

FIRE FIGHTING & EXPLOSION DATA

Flash Point: N/A F

Autoignition: N/A F

Lower Explosive Limit (%): N/A

Upper Explosive Limit (%): N/A

Fire and Explosion Hazards Under normal conditions of use this material does not present a significant fire or explosion hazard.

Extinguishing Media CO₂, Dry Chemical, Water, Water Spray.

Special Fire Fighting Instructions Fight fire from a safe distance or protected location. Use water spray to keep containers and equipment cool. Wear full protective equipment including self-contained breathing apparatus (SCBA).

EXPOSURE and EFFECTS - INHALATION This product contains materials at greater than one percent which, if undiluted, have the following health effects upon inhalation: None Known. May cause allergic reactions in sensitive individuals.

First Aid Remove from exposure. If breathing is feeble or ceases, give cardiopulmonary resuscitation. Obtain medical attention.

Penicillin treatment as necessary.

SKIN This product contains materials at greater than one percent which, if undiluted, have the following health effects upon skin contact: May cause irritation.

First Aid Remove contaminated clothing. Thoroughly wash exposed area with soap and water. Obtain medical attention.

Penicillin treatment as necessary.

EYES This product contains materials at greater than one

percent which, if undiluted, have the following health effects upon eye contact: May cause irritation.

First Aid Flush with water for at least 15 minutes. Obtain medical attention.

Penicillin treatment as necessary.

INGESTION This product contains materials at greater than one percent which, if undiluted, have the following health effects upon ingestion: None Known. May cause allergic reactions in sensitive individuals.

First Aid Give copious amounts of water and induce vomiting, if conscious. Obtain medical attention.

Penicillin treatment as necessary.

MISCELLANEOUS TOXICOLOGICAL INFORMATION

Pasteurella multocida, the live bacteria contained in this vaccine, is not considered to be pathogenic for the normal immunocompetent human even if inhaled, ingested, or applied to the eyes or skin. If the vaccine is accidentally injected, the bacteria will multiply at the site of injection causing an abscess or systemic infection. In immunoincompetent humans, the bacteria should be considered to be pathogenic if inhaled, ingested, applied to the eyes or injected.

HEALTH CONDITIONS AGGRAVATED BY EXPOSURE None, but immunoincompetence will potentiate the problem.

REACTIVITY & POLYMERIZATION

Stability: Stable.

Conditions to Avoid (Stability)

Avoid open flame and high temperatures.

Hazardous Decomposition Products

CO & CO₂

Hazardous Polymerization: Will not occur.

SPILL, LEAK, & DISPOSAL PROCEDURES Steps to be taken in the event of spills, leaks, or release: Squeeze, sweep, scoop, or vacuum up spill. Minimize contact with spilled material. Keep other personnel away from the clean up area. Wear appropriate respiratory protection and protective clothing in the spill area. Notify your supervisor immediately. Clean area with a wet mop. Dispose of spilled material and clean up materials as given in Waste Disposal Methods below.

Waste Disposal Methods While not a hazardous waste, material should be destroyed in an autoclave. An approved landfill site is the preferred disposal method after autoclaving.

SPECIAL PROTECTIVE MEASURES

Ventilation Provide adequate local exhaust ventilation.

Eye Protection Splash goggles/safety glasses.

Skin Protection Gloves - Latex or better. Lab coat or uniform.

Respiratory Protection None usually required. Use a half-mask respirator with HEPA cartridges for the material in bulk.

Work/Hygienic Practices Train employees concerning hazards and precautions. Provide adequate local exhaust ventilation. Wash hands and forearms after each use. Use indicated protective equipment while handling. Change respirator cartridges after four hours of continuous use or upon detection of an increase in breathing resistance or eye or nasal irritation.

SPECIAL PRECAUTIONS - STORAGE & HANDLING

Store in refrigerator temperatures. No special precaution needed in handling vaccine.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES Although reasonable care has been taken in the preparation of this document, we extend no warran-

ties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Schering-Plough Animal Health