

SAFETY DATA SHEET

Creation Date: 26 May 2015 Revision Date: 26 May 2015 Revision Number: 2015-0

3. Identification of the substance or mixture and of the supplier

Product Name

Actinobacillus pleuropneumoniae Bacterin (EMULSIBAC-APP)

Synonyms

None

Recommended Use Manufacturer For vaccination of pigs MVP Laboratories, Inc.

4805 G Street

Omaha, NE 68117

(402) 331-5106

Emergency Phone

(800) 856-4648 or (402) 331-5106

& Hazards Identification

Classification

No known OSHA Hazards
HMIS Classification

Health hazard: Flammability:

0

Physical hazards:

0

NFPA Rating

Health hazard:

0

Fire: Reactivity Hazard: 0

Signal Words

NONE

<u>Pictogram</u>

NONE

Health Hazards

Inhalation:

NONE

Skin: Eyes: NONE

Lyes.

May cause eye irritation

Ingestion:

May be harmful if swallowed

3. Composition/Information on Ingredients

Substance

Killed bacterial antigens of Actinobacillus pleuropneumoniae

Other minor ingredients may include: Gentamicin CAS No. 1403-66-3

EMULSIGEN adjuvant (CAS No. not assigned)

Formaldehyde CAS No. 50-00-0

Statement of Hazard

Contains formaldehyde: Potential cancer hazard May cause eye, skin and respiratory tract irritation

May cause sensitization of the skin and respiratory system

Injection

In the event of accidental injection, an allergic reaction may occur. If an allergic reaction

occurs the worker should be removed to the nearest emergency room and the

appropriate therapy instituted.

EU Hazard Symbols:



EU Risk Phrases:

R43 - May cause sensitization by skin contact

Note:

This document has been prepared in accordance with standards for workplace safety which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending on the potential for exposure in your workplace.

4 First Ald Medicine

Eye: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical

attention.

Skin: First ald is not normally required. Wash thoroughly with soap and water. If irritation occurs or persists, get

medical attention.

ingestion: May be harmful if aspirated. Inhalation exposure to mists at current workplace exposure limits is unlikely to

cause pulmonary abnormalities.

Notes to

Injection of products containing oil-in-water adjuvants may produce a reaction at the site of injection. Treat

Physician: accordingly.

5. Fire lighting Measures

Extinguishing Media Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212 °F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

<u>Unusual Fire</u>

This product is a nonflammable aqueous solution and is not expected to support combustion.

and Explosion Hazards

<u>Fire Fighting</u> Wear appulnstructions

Wear appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop Spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

6. Accidental Release Measures

Personal Precautions This product is a nonflammable aqueous solution and is not expected to support combustion.

Same ...

Spill Precautions

Stay upwind and away from spill/release. Notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8)

Environmental Precautions

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery and disposal. Spilled material may be absorbed into an appropriate absorbent material.

Methods for Cleaning Up Immediate cleanup of any spill is recommended. Notify fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802)

7. Handing and Merage

Handling

Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. When handling, use appropriate protective equipment (See Section 8). Avoid accidental injection.

Storage

Store at 2-10°C. Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. Exposure Controls/Parsonal Protection

This product contains killed bacterial antigens, gentamicin, formaldehyde and EMULSIGEN® adjuvant.

Personal Protective Equipment (PPE):

Eve/Face

While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

<u>Skin</u>

Not required based on the hazards of the material. However, it is considered good practice to protective clothing such as lab coats, disposable coveralls, gloves and safety glasses in laboratory or production areas when handling this product.

Respiratory

General room ventilation is adequate unless the process generates mist or fumes.

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other

A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. Physical and Chemical Properties

<u>Note</u>

Unless otherwise stated, values are determined at 20 °C (68 °F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance:	White
Physical Form:	Liquid
Odor:	Odorless
Odor Threshold:	No data
pH:	7.0 ± 1.0 pH unit
Vapor Pressure:	No data
Vapor Density (air=1):	No data
Boiling Point/Range:	No data
Melting/Freezing Point:	No data
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water) (Kow):	No Data
Specific Gravity	1.0+0.2
Evaporation Rate (nBuAc=1):	No data
Flash Point:	Non-flammable
Flammability:	No data
LEL (vol % in air):	No data
UEL (vol % in air):	No data
Autoignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data
Polymerization	Will not occur

10. Stability and Reactivity

Reactivity

Stable under normal ambient and anticipated storage and handling conditions of temperature

and pressure

Conditions to Avoid

Avoid freezing and high temperatures and all sources of ignition (see Sections 5 and 7). Storage

or prolonged exposure to higher temperatures may adversely affect potency.

Materials to Avoid

(Incompatible materials)

Avoid contact with strong oxidizing agents such as hydrogen peroxide, bromine, chlorine and strong acids and strong bases. Also avoid organic solvents or heavy metals as they may

adversely affect potency.

Hazardous Decomposition

Products

None expected

Hazardous Polymerization

Will not occur.

11. Toxicological Information

Acute Data

General Information:

The antigens in this product are not infectious. All antigens have been killed and tested to assure inactivation. The information included in this section describes the potential hazards of the individual ingredients. Toxicological properties of the product have not been evaluated.

Acute Toxicity: Species, Route, End Point, Dose

Product:

No data available

Gentamicin: Rat Oral: LD50 6600 mg/Kg

Rat Subcutaneous: LD50 710 mg/Kg
Rat Intramuscular: LD50 463 mg/Kg
Mouse Intramuscular: LD50 167 mg/Kg

Formaldehyde: Rat Oral (LD50)

Mouse Oral Toxicity (LD50): 42 mg/Kg
Rabbit Skin (LD50): 270 uL/Kg
Mouse Inhalation: 454000 mg/m

EMULSIGEN All species No data available

Irritation / Sensitization: Study type, Species, Severity

Product: All species No data available

Gentamicin: Rabbit Eye irritation: Not irritating

Formaldehyde: Rabbit Eye irritation: Severe/Corrosive
Rabbit Skin: Moderate to Severe

Respiratory Tract
Severe irritation and lung corrosion
Ingestion
Harmful if swallowed, may be fatal

800 mg/Kg

EMULSIGEN® All species No data available

Repeated Dose Toxicity: Duration, Species, Route, Dose, End Point, Target Organs

Product: All species No data available

Gentamicin: All species No data available

Formaldehyde: 90 Days Dog Inhalation Not Specified Lungs

90 Days Rat Inhalation Not Specified Lungs 90 Days Monkey Inhalation Not Specified Lungs

9 Days Rat Inhalation 15ppm LOAEL Respiratory System

Subchronic Effects: Rats exposed to 15ppm formaldehyde vapor for six hours/day for up to 9 days showed an acute cell degeneration, necrosis and inflammation in the nasal cavities. Inhalation exposure to formaldehyde for up to 90 days produced interstitial inflammation in the

lungs of dogs, rats, monkeys, rabbits and guinea pigs.

Chronic Effects/Carcinogenicity: In rats, several inhalation studies have shown that

formaldehyde induces squamous cell carcinomas and necrosis of the nasal cavity. Formaldehyde also showed co-carcinogenic effects when inhaled, ingested, or applied to the skin of rodents.

Reproduction & Development Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s)

Gentamicin: Embryo/Fetal Development Rat Intramuscular 75 mg/Kg LOAEL Developmental Toxicity

Formaldehyde: Embryo/Fetal Development Mouse Oral 185 mg/Kg/day Not teratogenic, Maternal toxicity
Embryo/Fetal Development Rat Inhalation 40 ppm Not teratogenic, Maternal toxicity

Reproductive Effects Not considered to be a reproductive hazard

Teratogenic Effects Formaldehyde has be tested by inhalation, oral, and dermal routes

and has been shown to be teratogenic in animals

Genetic Toxicity: Study Type, Cell Type, Organism, Results

Product: All species No data available

Formaldehyde: In vitro Bacterial Mutagenicity (Ames) Bacteria Positive

In Vitro Chromosome Aberration Rodent Positive In vitro Sister Chromatid Exchange Rodent Positive In vivo Chromosome Aberration Not Specified Positive

Mutagenicity Formaldehyde has been reported to be active in many short-term tests, both in vitro and in vivo.

Carcinogenicity: Duration, Species, Route, Dose, End Point, Effects

Product: All species No data available

Formaldehyde: Rat Inhalation 2 years, 6 ppm LOAEL Tumors

Mouse Inhalation 2 years 15 ppm

Carcinogen Status:

IARC: Group 1

NTP: Reasonably anticipated to be a carcinogen

OSHA: Present

12 Ecological Information

The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

13. Disposal Considerations

Formaldehyde RCRA – U Series Waste

Container contents should be completely used and containers should be emptled prior to discard.

19. Transportation information

U.S. Department of Transportation (DOT):

Shipping Description Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations

15. Regulation information

The composition of this product is a Trade Secret. The antigens in this product are not infectious. All antigens have been killed and tested to assure inactivation. The product contains Gentamicin and Formaldehyde.

Formaldehyde: OSHA Label Contains formaldehyde: potential cancer hazard

May cause eye, skin and respiratory tract irritation May cause sensitization of the skin and respiratory

system

EU Symbol Xi
EU Indication of danger: Irritant

EU Risk Phrases R43 May cause sensitization by skin contact

Canada WHMIS Classifications Class D, Division 2, Subdivision A

CERCLA/SARA 313 Emission reporting 0.1% e minimis concentration

CERCLA/SARA Hazardous Substances 100 lb final RQ and their Reportable Quantities 45.4 Kg final RQ CERCLA/SARA – Section 302 Extremely

Hazardous TPQs 100 lb EPCRA RQ

Substances EPCRA RQs

California Proposition 65

OSHA - Specifically Regulated Chemicals

carcinogen, initial date 1/1/88 (gas) 0.5 ppm Action Level

0.75 ppm TWA

2 ppm STEL irritant and potential cancer hazard - see

29CFR 1910.1048

inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling

for drugs and poisons **EU EINECS List**

Present Present Schedule 2 Schedule 6 200-001-8

Gentamicin:

California Proposition 65

Australia (AICS):

Standard for the uniform scheduling

for drugs and poisons: **EU EINECS List**

Aminoglycoside developmental

Present

Schedule 4 215-765-8

Legend:

EINECS

AICS Australia Inventory of Chemical Substances **CERCLA**

U.S. EPA Comprehensive Environmental Response, Compensation and Liability Act

European Inventory of Existing Commercial Chemical

TSCA United States Section 8(b) Inventory SARA Superfund Amendments and Reauthorization Act

16. Other Information

Issue Date: 01 June 2015 Status: Final

Previous Issue Date: 02 October 2006

Previous Code: N/A

Revised Sections or Basis for Revision: Completed for Global Harmonization Compliance

SDS Code: B008

Disclaimer of Expressed and Implied Warranties:

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