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Last Updated: 15May15

Safety Data Sheet

1 – Product and Company Information

Product Name: ENABL[®] Adjuvant

Effective Date: 06/05/12

Company

Identification:

VaxLiant LLC
421 West Industrial Lake Drive
Lincoln, NE 68528
United States of America

Product Information:

1-402-475-8104
8am – 4pm M-F (CST)

Product Description: Adjuvant for veterinary vaccines

2 – Composition / Information on Ingredients

This formulation is a Trade Secret. The product contains no preservatives and no known carcinogens.

3 – Hazards Identification

Principle Hazards

Caution: May cause skin irritation

Acute health effects

Not determined

Chronic health effects

Not determined

Signs/Symptoms of Overexposure

Breathing vapor of aerosolized adjuvant may irritate nose & throat, may cause nausea and vomiting. Skin/Eye contact causes irritation.

Routes of exposure/entry

Skin Contact, Inhalation, Ingestion, Eye Contact, Injection

Target organs

Respiratory system, Skin

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Medical conditions aggravated by exposure

Not Determined

Carcinogenic status

Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

Reproductive effects

Not Determined

4 – First Aid Measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye Contact

May cause mild irritation. Immediately flush eyes with clean water for 15 minutes; see a physician.

Skin Contact

May cause mild irritation. Wash the area thoroughly with plenty of water and soap.

Inhalation

May cause irritation to upper respiratory tract (nose and throat). If any vapors, decomposition products or aerosol particulates are inhaled, remove individual(s) to fresh air. Provide protection before allowing reentry.

Ingestion

An allergic reaction may occur. Call a physician.

Accidental Human Injection

Accidental human injection of adjuvants may cause serious localized reactions and direct tissue damage. Symptoms include significant swelling and pain at the area of injection.

Thoroughly clean the injection site with soap and water, seek medical attention immediately.

Notes to Physician

Water swells this active ingredient into a gelatinous film and, when in contact with the eye, may be difficult to remove using only water. Physiological saline may be used in place of water.

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Injected adjuvant may remain near the injection site for a time and then infiltrate adjacent tissue. Following a medical examination, removal of the affected tissue may be necessary.

5 – Fire Fighting Measures**NFPA flammability class**

Not Applicable

Flash point

Not Applicable

Explosive range

LEL: Not Applicable, UEL: Not Applicable

Notes

No Additional Information

Fire and explosive properties

Combustion and decomposition products could be toxic. Vapors heavier than air may travel to ignition source.

Extinguishing media

Use water spray, dry chemical, or foam.

Fire fighting instructions

Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing.

Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition.

In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Unusual Fire and Explosion Hazard

No Information Available

Unusual fire/explosion hazards

No Information Available

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6 – Accidental Release Measures**Spill Procedures**

Personal Protective Equipment must be worn (see Exposure Controls/Personal Protection Section for PPE recommendations). Prevent material from becoming an aerosol by adding copious amounts of water to maintain the spilled product in solution for pickup and cleaning.

The spilled material diluted with water is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal of spilled material must be in accordance with applicable Federal, State/Provincial, and Local regulations.

7 – Handling and Storage**Handling**

Do not get in eyes. Do not ingest, taste, or swallow. Wash thoroughly after handling. Always wash hands before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid repeated or prolonged skin contact. Avoid routine inhalation of aerosols of any kind. Exercise care when emptying containers, mopping, mixing or doing other tasks which can create aerosols.

Storage

Keep container closed when not in use. Store refrigerated at 2-7° C.

8 – Exposure controls / personal protection**Engineering Controls**

Always provide effective general and, when necessary, local exhaust ventilation to draw aerosols away from workers to prevent routine inhalation and exposure to the mucous membranes. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.)

Eye/Face Protection

Eye protection (e.g., goggles) suitable for keeping aerosols out of the eyes.

Skin Protection

Wear protective Latex or Nitrile gloves.

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Respiratory Protection

If respirable aerosols occur outside of an exhaust ventilation hood, wear a NIOSH-approved filter mask. To prevent inhalation of decomposition or aerosols in a fire-fighting situation for respiratory protection, wear a NIOSH/MSHA approved positive pressure self-contained breathing apparatus. Use filter masks or respirators in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

General Protection

Safety shower and eye wash

9 – Physical and Chemical Properties**Form:** Liquid**pH:** ~ 6.5 – 7.5**Appearance:** Off-White to White**% Volatile by weight:** Not Available**Odor:** Odorless**Specific gravity:** Not Available**Solubility in water:** Miscible**VOC:** Not Available**Evaporation rate:** Non-volatile**Vapor:** Not Applicable**Boiling point °F:** Not Applicable**Boiling point: °C** Not Applicable**Vapor density:** Non-volatile**Bulk Density:** Not available**Partition coefficient:** Not Available**Melting point:** N/A**Notes:** Amounts specified are typical and do not represent a specification.**10 – Stability and Reactivity****Stability**

Material is normally stable at moderately elevated temperatures and pressures. Hazardous polymerization will not occur.

Conditions to Avoid

Inhalation of aerosols

Incompatibility/Additional Reactivity with Other Materials

No Information

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, hydrocarbons, and irritating vapors

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11 – Toxicological information

Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

No information is available on this product. Toxicological information on this adjuvant has not been completed.

12 – Ecological Information

Crosslinked polyacrylic acid polymers present in this product are not biodegradable; do not inhibit waste treatment bacteria; and do not pass through typical wastewater treatment to the environment, but are instead removed with the biomass.

Notes: No Additional Information for product

13 – Disposal Considerations

For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). Treatment, storage, transportation, and disposal of spilled material must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14 – Transportation information

UN : N/A

Number: N/A

Hazard Class: N/A

IMDG Class: N/A

Packing Group: N/A

ICAO/IATA Class: N/A

TDG Class: N/A

Name of Material: Not regulated

Notes: No Additional Information

15 – Regulatory information

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29CFR 1910.1200

U.S. Toxic Substances Control Act: All components of this adjuvant are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations.

U.S. CERCLA – SARA:

SARA Title III Section 312 Hazard Category (40 CFR 311/312):

SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

Not Known

California Proposition 65:

Ingredients known to the state of California to cause Cancer:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

The chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1 910.1200 (i).

Canadian Domestic Substances List (DSL):

All components in this product are on the Canadian Domestic Substances List (DSL) or are exempt from listing.

Canadian Ingredient Disclosure List:

The following components are on the Canadian Ingredient Disclosure List (WHMIS):
None Listed

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Canadian WHMIS Class:

Not controlled

This active ingredient has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Note: No Additional Information**Hazard Rating****US NFPA Codes****Health: 1 Flammability: 0 Reactivity: 0 Special: N/E**

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme

HMIS Codes**Health: 1 Flammability: 0 Reactivity: 0**

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme

16 – Other Information**Definitions****NIOSH:** National Institute for Occupational Safety and Health**NTP:** National Toxicology Program**N/A:** Not Applicable**N/E:** None Established**OSHA** Occupational Safety and Health Administration**PEL:** Permissible Exposure Limit**RTK:** Right To Know**STEL:** Short Term Exposure Limit (15 minute Time Weighted Average)**TLV:** Threshold Limit Value

Skin refers to the potential significant contribution to the overall exposure by the cutaneous route including mucous membranes and the eyes and by direct skin contact with the substance.

User responsibility/disclaimer of liability

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions

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are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user. This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.