



MULTIMUNE® K5

Safety Data Sheet

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

Revision date : April 22, 2015

Supersedes: July 14, 2008

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : MULTIMUNE® K5, Pasteurella Multocida Bacterin, Types 1, 3, 4, and 3 x 4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : This bacterin contains five strains consisting of four serotypes of Pasteurella multocida, including two strains of serotype 3 x 4. The bacterin is emulsified in an oil adjuvant. This bacterin is recommended for use in healthy chickens and turkeys as an aid in the prevention of fowl cholera caused by Pasteurella multocida type 1 in chickens and types 3, 4 and 3 x 4 in turkeys.

1.3. Details of the supplier of the safety data sheet

Ceva BIOMUNE
 8906 Rosehill Rd.
 Lenexa, Kansas 66215
 (913) 894-0230

1.4. Emergency telephone number

Country	Official advisory body / Company	Address	Emergency number
UNITED STATES	Infotrac	-	1-800-535-5053
INTERNATIONAL	Infotrac	-	1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
 Not classified

2.2. Label elements

GHS-US labelling
 No labeling applicable

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

No data available



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SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Name	Product Identifier	%	Classification (GHS-US)
<i>Pasteurella multocida</i> Bacterial Antigens	Not applicable	Varies	Not applicable
Oil adjuvant	Not applicable	60%	Not a hazardous substance or mixture.
Thimersol	(CAS No) 54-64-8	*	Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310 Specific target organ toxicity - repeated exposure (Category 2), H373 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410
Formaldehyde	(CAS No) 50-00-0	*	Flammable liquids (Category 4), H227 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Skin sensitisation (Category 1), H317 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 1), H370 Acute aquatic toxicity (Category 3), H402

*Chemicals are present in a concentration less than 1% which is below the cut off limit according to §1910.1200

SECTION 4: First aid measures

4.1 Description of first aid measures

- First-aid measures after inhalation : Remove to fresh air and provide oxygen if necessary. If any trouble breathing, get immediate medical attention. If irritation or symptoms occur or persist, consult a doctor.
- First-aid measures after skin contact : In the event of accidental injection, seek medical attention immediately.
- First-aid measures after eye contact : In case of contact, rinse immediately with plenty of water and seek medical attention if irritation develops.
- First-aid measures after ingestion : Rinse mouth and drink a glass of water. If irritation or symptoms occur or persist, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : None to our knowledge.
- Symptoms/injuries after eye contact : None to our knowledge.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Polyvalent powders. Carbon dioxide (CO₂).

Unsuitable extinguishing media : None

5.2. Special hazards arising from the chemicals

Fire hazard : No specific hazardous decomposition products known.

Reactivity : To our knowledge, the product does not present any particular risk, under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : None

Protection during firefighting : None

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid accidental injection or oral ingestion. Wash and disinfect area of contact. See attached accidental injection injuries sheet.

6.1.2. For emergency responders

Protective equipment : Apply the same recommendations as section 6.1.1.

6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain spill. Absorb with inert material such as sand, clay etc. Wash the area with soap and water.

Methods for cleaning up : Wash the area with soap and water.

Other information : Follow good vaccination procedures. Refer to packaging for complete directions.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Follow good vaccination procedures. Refer to packaging for complete directions.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at 2-7°C (35-45°F).

Incompatible materials : Strong acids. Strong bases. Strong oxidizing agents.

Special rules on packaging : Refer to packaging for complete directions.

7.3. Specific end use(s)

No additional information available.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

The mixture is not classified for Health hazards: use aseptic technique

Hand protection : Protective gloves are recommended.

Eye protection : Safety glasses are recommended.

Skin and body protection : Optional

Respiratory protection : None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Gray to off white color
Odour	: No perceptible odor
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Not soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidising properties	: Non oxidizing material
Explosive limits	: No data available

9.2. Other information

None



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SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

None under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

None under normal conditions.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Potential health hazard if accidentally injected into a human.
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow the product to be released into the environment.

12.2. Persistence and degradability

Persistence and degradability	Inactivated vaccine, contains no live bacteria.
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Incinerate unused vaccine and vials.

Additional information : None

SECTION 14: Transport information

In accordance with DOT

Not classified as a dangerous good for transport

Additional Information

Other information : No supplementary information available.

None

Transport document description : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Not classified as a hazardous or toxic

15.2. International regulations

CANADA

Not classified as a hazardous or toxic

EU-Regulations

Not classified as a hazardous or toxic

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified as a hazardous or toxic

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified as a hazardous or toxic

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Data sources : SDS of suppliers.

HMIS III Rating

Health : 0 Minimal Hazard

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product