



## Section 1 - Identification of The Material and Supplier

<b>Product Identifier:</b>	Immucox, Coccidiosis Vaccines
<b>Product Identifier:</b>	Immucox 3, Immucox 5, Immucox T Eimeria Acervulina-Maxima-Tenella Vaccine, Live Oocysts Eimeria Acervulina-Brunetti-Maxima-Necatrix-Tenella Vaccine, Live Oocysts Eimeria Adenooides-Meleagrimitis Vaccine, Live Oocysts Coccidiosis Vaccine, Live Oocysts
<b>Application:</b>	Poultry Vaccine
<b>Supplier:</b>	Ceva Animal Health Inc., 131 Malcolm Road, Guelph, Ontario, Canada N1K 1A8
<b>Emergency Telephone:</b>	519-822-2994

## Section 2 - Hazards Identification

<b>Statement of Hazardous Nature:</b>	This product contains potassium dichromate solution, which is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, the concentration contained in this vaccine is well below the exposure guidelines of 0.05 mg/m <sup>3</sup> .
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### Emergency Overview of Potassium Dichromate:

Acute Inhalation Toxicity - Dust and Mist	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory	
Specific target organ toxicity (repeated exposure)	Category 1
Target Organs - Liver, Kidney, Blood	

<b>Risk Phrases:</b>	Not Hazardous in contained concentration.
<b>Safety Phrases:</b>	Avoid contact with skin and eyes.
<b>Signal word:</b>	NONE. Not Hazardous.

## Section 3 - Composition/Information on Ingredients

<i>Eimeria acervulina</i>	CAS-No: Not assigned, EU Classification: Not listed
<i>Eimeria maxima</i>	CAS-No: Not assigned, EU Classification: Not listed
<i>Eimeria tenella</i>	CAS-No: Not assigned, EU Classification: Not listed
1.33% Potassium Dichromate	CAS-No. 7778-50-9



#### **Section 4 - First Aid Measures**

<b>Eye Contact:</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.
<b>Skin Contact:</b>	Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.
<b>Inhalation:</b>	Remove to fresh air. Administer artificial respiration if breathing has ceased. IMMEDIATELY consult a physician.
<b>Ingestion:</b>	Do not induce vomiting. Consult a physician. Do not attempt to give anything by mouth to a seizing, drowsy or unconscious person. If alert, rinse mouth and drink a glass of water.

#### **Section 5 - Fire-Fighting Measures**

<b>Extinguishing Media:</b>	Water spray, Carbon dioxide (CO <sub>2</sub> ) or extinguishing powder.
<b>Hazardous Combustion Products:</b>	Chromium Oxide
<b>Protective Equipment for Fire-Fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

#### **Section 6 - Accidental Release Measures**

<b>Personal Precautions:</b>	Avoid contact with skin and eyes. Provide eyewash, quick drench
<b>Environmental Precautions:</b>	Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible, notify the Ministry of Environment and appropriate authorities immediately.
<b>Spill Clean Up Methods:</b>	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

#### **Section 7 - Handling and Storage**

<b>Usage Precautions:</b>	Observe good industrial hygiene practices.  Keep containers adequately sealed during material transfer, transport or when not in use.  Avoid contact with skin and eyes.  Wash hands after contact.  Do not eat, drink or smoke when using this vaccine.
<b>Storage Precautions:</b>	Store at 2-8°C until use. Keep containers securely sealed.



## Section 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment:



### Respiratory Equipment:

Respiratory protect equipment is not required for administering this vaccine, due to the low concentration level of potassium dichromate.

### Hand Protection:

Wear protective gloves.

### Eye Protection:

Wear approved safety goggles.

### Other Protection:

Provide eyewash, quick drench.

### Hygiene Measures:

Wash hands after contact.

## Section 9 - Physical and Chemical Properties

### Appearance:

Liquid

### Colour:

Blue, Green or Red.

### Solubility:

Soluble in water.

## Section 10 - Stability and Reactivity

### Stability:

Stable under recommended temperature conditions and use.

### Conditions to Avoid:

Avoid heating or freezing.

Avoid reaction with oxidizing agents.

### Hazardous Decomposition Products:

No dangerous decomposition is expected if used according to manufacturer's specifications.

## Section 11 - Toxicological Information

This product contains potassium dichromate solution, which is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, the concentration contained in this vaccine is well below the exposure guidelines of 0.05 mg/m<sup>3</sup>. The toxicological information detailed below pertains to the potassium dichromate contained in the vaccine.

### Routes of Entry:

Skin contact, inhalation, ingestion

### Toxicity to Animals:

Oral - LD50: Not Available. LC50: Not Available.

Dermal - LD50: Not Available. LC50: Not Available.

Mist - LD50: Not Available. LC50: Category 4, ATE = 2.25mg/l

### Carcinogenicity:

Group 1 Carcinogen

### Mutagenic Effects:

Mutagenic

### Teratogenicity:

Teratogenic effects have occurred in experimental animals.

### STOT - single exposure:

Respiratory system

### STOT - repeated exposure:

Liver, kidney, blood

### Symptoms:

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.



## Section 12 - Ecological Information

**Ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system. The product contains the following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium dichromate	Not listed	23 - 41.2 mg/L LC50 96 h 24.81 - 34.55 mg/L LC50 96 h 14 - 20.9 mg/L LC50 96 h 15.41 - 30.36 mg/L LC50 96 h 21.209 - 30.046 mg/L LC50 96 h 12.3 mg/L LC50 96 h 65.6 - 137.6 mg/L LC50 96 h 320 mg/L LC50 96 h 113.6 - 155.7 mg/L LC50 96 h 139 mg/L LC50 96 h	Not listed	EC50: 1.4 mg/L 24h

**Degradability:**

May persist based on information available.

**Mobility:**

Mobile in environment due to its water solubility

## Section 13 - Disposal Considerations

**Disposal Methods:**

Dispose of waste and residues in accordance with local authority requirements.

## Section 14 - Transport Information

**General:**

The product is not covered by international regulation on the transport of dangerous goods due to the low percentage of potassium dichromate contained.

## Section 15 - Regulatory Information

**Regulatory Status:**

This product is licensed by the Canadian Food Inspection Agency for use as a poultry vaccine administered at 1-3 days of age by oral route.

## Section 16 - Other Information

This SDS contains only safety-related information. For other information see product literature.