

**SECTION 1: IDENTIFICATION****1.1. Product Identifier:**

**Material name:** Amprolium 20% Soluble Powder  
**Trade name:** Corid 20% Soluble Powder  
**Product number:** 23091

**1.2. Manufacturer/Supplier:**

Huvepharma Inc.  
3360 Maury Avenue  
St. Louis, MO 63116

Merial LLC  
3239 Satellite Blvd.  
Duluth, GA 30096-4640  
Telephone: 1-888-637-4251  
Emergency telephone: 1-888-637-4251

**1.3. Relevant identified uses and any restrictions:**

**Intended use:** Use as an aid in the prevention and treatment of coccidiosis in calves.  
**Restrictions on use:** Not for human use.

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the chemical:***C Corrosive*

R 34 Causes burns.

The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

- NFPA ratings (scale 0 - 4)



*Health = 0*  
*Fire = 0*  
*Reactivity = 0*

- HMIS ratings (scale 0 - 4)



*Health = 0*  
*Fire = 0*  
*Reactivity = 0*

**2.2. Signal word:** Warning**2.3. Statement of hazard:** Not applicable.

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**2.4. Precautionary statement(s):** See First Aid Measures Section.

**2.5. Description of any hazards not otherwise classified:** Not applicable.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### Hazardous

Ingredient	CAS Number	%
Amprolium Hydrochloride	121-25-5	20.4%
Non hazardous substance		0.1 – 0.5
Sucrose, pure	57-50-1	70 - 80
Fumaric acid	110-17-8	1 - 5

Additional information: Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16.

### SECTION 4: FIRST-AID MEASURES

#### 4.1. First aid measures:

- **Eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **Skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **Ingestion:** Rinse out mouth and then drink plenty of water. Immediately call a doctor.
- **Inhalation:** In case of unconsciousness place patient stably in side position for transportation. Seek immediate medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed:

**Symptoms and effects of exposure:** Eye irritation, skin irritation, potential allergic reaction, irritation of respiratory tract and asthma-like allergic reaction.

**Medical conditions aggravated by exposure:** Asthma-like conditions may be aggravated.

#### 4.3. Recommended immediate medical attention and special treatment needed:

Immediately remove any clothing soiled by the product.  
Do not leave affected persons unattended if individual is exposed to large quantities of product.  
Involve doctor immediately.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media:**

CO, extinguishing powder or water spray. Fight larger fires with water spray.

**5.2. Specific hazards arriving from the substance or mixture:**

Hazardous combustion products: Fine dust particles in air may concentrate in explosive mixture.  
Toxic gases (organic chlorides, HCl, oxides of nitrogen, CO, CO<sub>2</sub>) may result from exposure to fire.

**5.3. Advice for firefighters:**

Firefighters should wear self-contained breathing apparatus and full protective equipment.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions and protective equipment:**

Keep people at a distance and stay upwind.  
Wear protective equipment.

**6.2. Emergency procedures:**

Keep unprotected persons away.

**6.3. Methods and materials for containment:**

Inform respective authorities in case of seepage of large quantities into water source or sewage system. Do not allow product to reach sewage system or any water course.

**6.4. Cleanup procedures:**

Vacuum, shovel, sweep-up all spilled materials and place in sealed container for proper disposal IAS Section XIII.  
Ensure adequate ventilation.

#### **SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

Avoid dust, eliminate sources of ignition in dusty conditions. Store in cool, dry place. Avoid eye and skin contact. Do not ingest. Wash thoroughly after use.  
Keep containers tightly sealed.  
Avoid dust generation.  
Handle with care. Avoid jolting and impact.  
Information about protection against explosions and fires: No special measures required.

**7.2. Conditions for safe storage, including any incompatibilities:**

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Store only in the original container.  
 Keep receptacle tightly sealed.  
 Store in the dark.  
 Store in a cool, dry, well ventilated place.  
 Information about storage in one common storage facility: Not required.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control Parameters:

##### 8.1. Exposure controls:

Sucrose, pure	
ACGIH TLV	10 mg/m <sup>3</sup> A4
NIOSH REL	10*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
OSHA PEL	15*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction

**8.2. Engineering controls:** Local exhaust recommended.

##### 8.3. Personal protective measures:

Hands: Wash hands before breaks and at the end of work.  
 Eyes: Avoid contact.  
 Skin: Avoid contact.  
 General: Do not eat, drink, smoke or inhale. Do not store food in the working area. Keep away from foodstuffs, beverages. Immediately remove all soiled and contaminated clothing.

##### 8.4. Special requirements for PPE, protective clothing or respirators:

Hands: Impervious gloves to minimize skin contact.  
 Eyes: Safety goggles.  
 Breathing equipment: If in particulate form, MSHA-NIOSH approved respirator for dust.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Physical and chemical properties:

• Appearance:	Powder, whitish
• Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
• Odor:	Characteristic
• Vapor pressure:	No data available
• Odor threshold:	No data available
• Vapor density:	No data available
• pH:	1.7-3.2
• Relative density:	No data available
• Melting point/freezing point:	Undetermined
• Solubility(ies):	soluble in water
• Initial boiling point and boiling range:	Undetermined
• Flash point:	Not applicable
• Evaporation rate:	No data available
• Flammability (solid, gas):	No data available
• Vapor pressure:	No data available
• Vapor density:	No data available
• Relative density:	No data available
• Solvent content:	0%
• Partition coefficient: n-octanol/water:	No data available
• Auto-ignition temperature:	Product is not self-igniting
• Decomposition temperature:	No data available
• Viscosity:	No data available
• Specific gravity:	Not determined

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

No dangerous reactions known.

### 10.2. Chemical stability:

Stable under recommended storage conditions.

### 10.3. Other:

- **Possibility of hazardous reactions:**  
No dangerous reactions known.
- **Conditions to avoid:**  
No decompositions if used according to specifications.
- **Incompatible material:**  
None known.
- **Hazardous decomposition products:**  
Toxic gases (organic chlorides, HCl, oxides of nitrogen, CO, CO<sub>2</sub>) may result from exposure to fire.

**SECTION 11: TOXICOLOGICAL INFORMATION****Information on Toxicological Effects General Information:**

The information included in this section describes the potential hazards of the active ingredient(s).

**Routes of exposure:**

Inhalation: Specific test data for the mixture is not available.

Ingestion: Specific test data for the mixture is not available.

Skin: Specific test data for the mixture is not available.

Eye: Specific test data for the mixture is not available.

**Delayed, immediate, or chronic effects from short- and long-term exposure:**

Inhalation: No information available.

Ingestion: No information available.

Skin: No irritating effect known.

Eye: No irritating effect known.

Sensitization: No sensitizing effects known.

**Numerical measures of toxicity:**

121-25-5 Amprolium Hydrochloride

Oral LD50 6.170 mg/kg (mouse)

Demal LD50 20.0 g/kg (rabbit)

110-17-8 Fumaric acid

Oral LD50 9300 mg/kg (rat)

Demal LD50 500 mg/24H MLD (rabbit)

**Symptoms related to the physical, chemical and toxicological characteristics:**

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The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**Carcinogen Status:** None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

### SECTION 12: ECOLOGICAL INFORMATION

#### Environmental overview:

Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.

#### 12.1. Aquatic toxicity:

121-25-5 Amprolium Hydrochloride

LC50/96 hours 110.8 ug/l (daphnia magna)

**12.2. Persistence and degradability:** Water hazard class 1: slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.3. Bioaccumulation potential:** No data available.

#### 12.4. Mobility in soil:

Water hazard class 1 (self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

**12.5. Other adverse effects:** No data available.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

#### Product:

Recommendation: Dispose of in EPA approved chemical landfill.

#### Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

**SECTION 14: TRANSPORT INFORMATION**

The following refers to all modes of transportation unless specified below.

DOT regulations:  
Hazard class: -

Land transport ADR/RID (cross-border):  
ADR/RID class: -

Maritime transport IMDG:  
IMDG Class: -  
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:  
ICAO-IATA Class: -

**SECTION 15: REGULATORY INFORMATION****Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

Sara

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

- 57-50-1 Sucrose, pure
- 110-17-8 Fumaric acid

CA Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity: None of the ingredients are listed.

Carcinogenesis potential categories

EPA (Environmental Protection Agency): None of the ingredients is listed.

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH):

- 57-50-1 Sucrose, pure A4

MAK (German Maximum Workplace Concentration): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

**Product related hazard information:**

The product has been classified and marked in accordance with directives on hazardous materials.

**Hazard symbols:**

C Corrosive



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**Risk phrases:**

34 Causes burns

**Safety phrases:**

1/2 Keep locked up and out of the reach of children.

20 When using do not eat or drink.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

29 Do not empty into drains.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately.

**Water hazard:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**SECTION 16: OTHER INFORMATION**

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

R 34 Causes burns.

Prepared by: DT

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Huvepharma, Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet