

# Safety Data Sheet

## Ammo Pack

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### SECTION 1: Identification

#### 1.1 GHS Product identifier

Product name Ammo Pack

#### 1.3 Recommended use of the chemical and restrictions on use

Poultry water supplement

#### 1.4 Supplier's details

Name	Manufactured for:
Address	Flint Hills Animal Nutrition 5435 Rockenham Road St. George, KS 66535 USA
Telephone	785-494-2454

1.5 Emergency phone number Chemtrec (800) 424-9300

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2A

#### 2.2 GHS label elements, including precautionary statements

##### Pictogram



##### Signal word

Warning

##### Hazard statement(s)

H319 Causes serious eye irritation

##### Precautionary statement(s)

P264	Wash ... thoroughly after handling.
P280	Wear eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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### Components

Component	Concentration
<b>L-Arginine (CAS no.: 74-79-3; EC no.: 200-811-1)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary
<b>L-Lysine Hydrochloride (CAS no.: 657-27-2)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary
<b>Potassium chloride (CAS no.: 7447-40-7; EC no.: 231-211-8)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary
<b>L-Threonine (CAS no.: 72-19-5)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary
<b>Sodium chloride (CAS no.: 7647-14-5; EC no.: 425-740-5; Index no.: 611-142-00-3)</b> CLASSIFICATIONS: Eye damage/irritation, Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 3. HAZARDS: H318 - Causes serious eye damage; H412 - Harmful to aquatic life with long lasting effects.	Proprietary
<b>Citric acid (CAS no.: 77-92-9; EC no.: 201-069-1)</b> CLASSIFICATIONS: Eye damage/irritation, Cat. 2A. HAZARDS: No data available.	Proprietary
<b>Magnesium sulfate Heptahydrate (CAS no.: 10034-99-8)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary
<b>Animal Feed Flavoring</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	Proprietary

### Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Wash with plenty of soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Acute and delayed symptoms and effects: Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Give water to drink if conscious. Get medical attention if effects persist.  Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically and supportively.

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## SECTION 5: Fire-fighting measures

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### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2 Specific hazards arising from the chemical

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L-Arginine: Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

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Potassium chloride: Hydrogen chloride gas, Potassium oxides

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Sodium chloride: Hydrogen chloride gas, Sodium oxides

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Avoid dust formation of explosive suspended dust or powder. Avoid breathing dust. Wear personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 Environmental precautions

Do not discharge product into natural waters without pre-treatment or adequate dilution.

### 6.3 Methods and materials for containment and cleaning up

Do not place spilled product back into original container. Keep all ignition sources away from spill to avoid potential for dust explosion. Clean with a broom or a vacuum and keep in suitable, closed containers for disposal. Cleaning surfaces with compressed air in the presence of ignition source should not be allowed.

#### Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes. Do not eat, drink, or smoke while handling. Ensure adequate ventilation and avoid formation of dusts. Wash hands with soap and water after handling. Keep out of the reach of children. For precautions see section 2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Provide general ventilation or local exhaust ventilation to minimize exposure to dust and maintain airborne concentrations below OSHA PELs or other specified exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

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### Eye/face protection

Safety glasses or chemical safety goggles that meet the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

### Skin protection

Wear protective gloves, such as nitrile gloves.

### Body protection

Wear suitable protective clothing.

### Respiratory protection

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

### Thermal hazards

No data available.

### Environmental exposure controls

Do not let product enter drains.

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## SECTION 9: Physical and chemical properties and safety characteristics

### Basic physical and chemical properties

Physical state	Solid
Appearance	free flow powder
Color	tan
Odor	slight
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	0.81 gram/ml
Relative vapor density	No data available.

### Particle characteristics

free flowing powder

### Further safety characteristics (supplemental)

No data available.

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

#### 10.2 Chemical stability

Stable under normal storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Dispersing dust in air and potential ignition sources.

#### 10.5 Incompatible materials

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L-Arginine: Strong oxidizing agents

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Potassium chloride: Strong acids, Strong oxidizing agents

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Citric acid: Oxidizing agents, Bases, Reducing agents, Nitrates

#### 10.6 Hazardous decomposition products

No data available.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

##### Skin corrosion/irritation

Causes severe skin burns.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### Respiratory or skin sensitization

Based on available data, classification data are not met

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

##### Germ cell mutagenicity

Based on available data, classification data are not met

##### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

##### Reproductive toxicity

Based on available data, classification data are not met

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### STOT-single exposure

Based on available data, classification data are not met

### STOT-repeated exposure

Based on available data, classification data are not met

### Aspiration hazard

Based on available data, classification data are not met

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## SECTION 12: Ecological information

### Toxicity

No data available on product

### Persistence and degradability

No data available on product

### Bio accumulative potential

No data available on product.

### Mobility in soil

No data available on product.

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

No data available on product.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Disposal should be in accordance with applicable Federal, State, and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

#### Packaging disposal

Dispose of as unused product.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### 15.1 Safety, health, and environmental regulations specific for the product in question

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### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

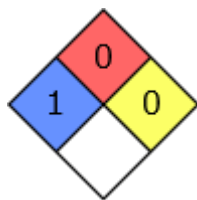
### SARA 311/312 Hazards

No SARA hazards.

### HMIS Rating

Ammo Pack	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

### NFPA Rating



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## SECTION 16: Other information

Last updated: 11/10/2021

### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Flint Hills be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Flint Hills has been advised of the possibility of such damages.