

Material Safety Data Sheet

Material Name: Paragon Specialty Products **BROILER Vitamins & Electrolytes**

*** Section 1 – Chemical Product and Company Identification ***

Manufacturer Information

Paragon Specialty Products, LLC
Rainsville, AL

Phone: (800) 643-3064

Emergency # (800) 424-9300 (24 Hr CHEMTREC)

*** Section 2 – Hazards Identification ***

Emergency Overview

Although this product has not been tested in accordance with ASTM E-27.05, finely divided organic dust suspended in air can form explosive mixtures.

Potential Health Effects: Eyes

May cause mechanical eye irritation.

Potential Health Effects: Skin

May cause mechanical skin irritation

Potential Health Effects: Ingestion

No significant adverse effects are expected upon ingestion of small amounts of this product.

Potential Health Effects: Inhalation

May cause mechanical respiratory irritation.

HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

*** Section 3 – Composition / Information on Ingredients ***

CAS #	Component	Percent
77-92-9	Citric acid	15-40

Component Information/Information on Non-Hazardous Components

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

This product is not regulated according to criteria of the Canadian Controlled Products Regulations.

*** Section 4 – First Aid Measures ***

First Aid: Eyes

Flush with water for 15 minutes while holding the eyelids wide open. Seek medical attention if irritation develops.

First Aid: Skin

Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. Do not use solvents to remove product residues from skin. If irritation persists, get medical attention.

First Aid: Ingestion

Product is not considered toxic in small amounts. Call a physician if symptoms develop or persist. If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation

Move person to non-contaminated air. Call a physician if symptoms develop or persist.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 – Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Dusts may form an explosive mixture with air.

Hazardous Combustion Products

Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

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Specific Hazards Arising From the Chemical

Substance is hazardous for water: contain fire-fighting wastewater.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing.
Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 – Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Environmental Precautions

Block any potential routes to water systems.

Clean-up Procedures

Wear appropriate equipment and clothing during clean-up. Avoid the generation of dusts during clean-up. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Put material in suitable, covered, labeled containers. Dispose of spent absorbent in an approved industrial waste landfill.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Special Procedures

Do not allow product to enter sewer or waterways. Regulations vary. Consult local authorities before disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product.

*** Section 7 – Handling and Storage ***

Handling Procedures

Product should be processed in closed systems, if possible superposed by inert gas. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid dust formation; product is a dust explosion hazard. Wash thoroughly after handling.

Storage Procedures

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

*** Section 8 – Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACHIH, OSHA, NIOSH and the provinces of Canada have not developed exposure limits for any of this product's components. Consult local authorities for acceptable exposure limits.

Engineering Controls

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product. Use explosion-proof equipment if high dust/air concentrations are possible.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

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*** Section 9 – Physical & Chemical Properties ***

Appearance: Fine free-flowing powder	Odor: Not Available
Physical State: Solid	pH: Not Available
Vapor Pressure: Not Available	Vapor Density: Not Available
Boiling Pressure: Not Available	Melting Point: Not Available
Solubility (H2O): Not Available	Specific Gravity: Not Available
Flash Point: Not Available	Flash Point Method: Not Available
OSHA Flammability Classification: Not Available	

*** Section 10 – Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Avoid dispersion of dust in air.

Incompatibility

None identified.

Hazardous Decomposition

Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 – Toxicological Information ***

Acute Dose Effects

A: General Product Information

This product may cause mechanical irritation of the eyes, skin, and respiratory tract.

B: Component Analysis – LD50/LC50

Citric acid (77-92-9)

Oral LD50 Rat: 3000 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 – Ecological Information ***

Ecotoxicity

A: General Product Information

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

B: Component Analysis – Aquatic Toxicity

Citric acid (77-92-9)

Test & Species

Test & Species	Concentration	Conditions
96 Hr LC50 <i>Lepomis macrochirus</i>	1516 mg/L	Static
96 Hr LC50 <i>Leuciscus idus</i>	440 mg/L	Static
15 min EC50 <i>Photobacterium phosphoreum</i>	14 mg/L	
72 Hr EC50 <i>Daphnia magna</i>	120 mg/L	

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*** Section 13 – Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waster under RCRA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 – Transportation Information ***

International Transportation Regulations

Not classified as hazardous material under DOT, IATA, IMDG, and TDG.

*** Section 15 – Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is exempted from the TSCA inventory (Food and Drug Administration exemption).

The components of this product are on the TSCA inventory.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis – State

None of this product's components are listed from CA, MA, MN, NJ, PA, or RI.

Component Analysis – WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Citric acid	77-92-9	1 %

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Citric acid	77-92-9	Yes	DSL	EINECS

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*** Section 16 – Other Information ***
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Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial and local laws.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. IOEL = Roche / DSM developed Internal Occupational Exposure Limits. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health Administration. NA = Not Available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.

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End of Sheet NP17005

End of MSDS