

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Product Identity: **For-A-Flex Electrolyte Pellet (64126-977, 64126-979)**

Section I

Manufacturer's Name Challenger Feeds/Form-A-Feed Inc.	Emergency Telephone Number 800-772-1716
Address (Number, Street, City, State, and ZIP Code) PO Box 9 740 Bowman Street Stewart, MN 55385	Telephone Number for Information 800-772-1716 Date Prepared 04-15-13 Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	
			Recommended	% optional
Citric Acid	15 mg/m ³	10 mg/m ³		
Dextrose	N/A	N/A		
Potassium Chloride	15 mg/m ³	10 mg/m ³		
Salt	not established	not established		
Grain Byproducts	not established	not established		
Alfalfa Meal	not established	not established		

Section III – Physical/Chemical Characteristics

Boiling Point N/A	N/A	Specific Gravity (<i>H₂O</i> = 1)	N/A
Vapor Pressure (<i>mm Hg.</i>) N/A	N/A	Melting Point	Not Determined N/A
Vapor Density (<i>AIR</i> = 1) N/A	N/A	Evaporation Rate (<i>Butyl Acetate</i> = 1)	Not Determined N/A
Solubility in Water: 100% Soluble Powder			
Appearance and Odor: tan/brown pellets; mild, slightly sweet “grain” aroma			

Section IV - Fire and Explosion Hazard Data

Flash Point: N/A	Flammable Limits: N/A	LEL	UEL
Extinguishing Media: Dry Chemical, Water, CO ₂ , Sand, Alcohol Foam			
Special Fire Fighting Procedures: Wear full protective clothing and NIOSH approved self-contained breathing apparatus with a full facepiece operated in the positive pressure or pressure demand mode.			
Unusual Fire and Explosion Hazards:			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid:
	Stable	X	

Incompatibility (*Materials to Avoid*): Strong Bases, alkali metals

Hazardous Decomposition or Byproducts

Carbon dioxide and carbon monoxide may form when heated

Hazardous Polymerization	May Occur		Conditions to Avoid: Heat, ignition sources, flames, incompatibles
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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Health Hazards (*Acute and Chronic*) Eyes: Mild irritation.

Skin: Mild irritation

Inhalation: Mild irritation

Ingestion: In large amounts can cause gastrointestinal irritation. In small amounts acts as a mild acidifier.

Carcinogenicity: No	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure

Inhalation: coughing, shortness of breath. Skin: Itching, redness Eyes: May be abrasive or irritating

Medical Conditions

Generally Aggravated by Exposure

Emergency and First Aid Procedures

Inhalation: Move individual to fresh air. Get medical attention if necessary.

Skin: Remove contaminated clothing and wash affected area with soap and water. If irritation persists, get medical attention.

Ingestion: Dilute with water or milk. Seek medical attention. Never give anything by mouth to an unconscious person.

Eyes: Flush with water for 15 minutes. Get medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Ventilate area of leak or spill. If contaminated and unusable for original purpose, place in a closed, marked container in a secure place for disposal. Contain spills. Do not contaminate water sources – spills will decrease pH.

Waste Disposal Method

Follow all state and local requirements for disposal of wastes

Precautions to Be Taken in Handling and Storing

Store in closed containers in a cool, dry, well ventilated area.

Other Precautions

Section VIII – Control Measures

Respiratory Protection (*Specify Type*)

Use NIOSH approved mask when working conditions generate airborne particulates above the exposure limit.

Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves

Rubber Gloves

Eye Protection

Goggles or approved protection for the working conditions

Other Protective Clothing or Equipment

Wear impervious protective clothing as appropriate.

Work/Hygienic Practices

Wash with soap and water after application is finished.