SAFETY DATA SHEET

Section 1: Identification

Product Name: Ferti-Maxx Phos Free Product Use: Dry fertilizer mixture Not recommended for: No available information

EZ-FLO Fertilizing Systems 3640 Cincinnati Ave., #C Rocklin, CA 95765 www.ezfloinjection.com Emergency Phone: (866) 393-5601 Fax: (916) 652-5754 FOR CHEMICAL EMERGENCY: Call CHEMTREC, day/night (800) 424-9300 (703) 527-3887, International

Section 2: Hazard(s) Identification

GHS Ratings:

GHS Hazards

GHS Precautions

Wash hands and face thoroughly after handling. Dispose of contents/container according to local/state/federal regulations.

Signal word:

Not classified as hazardous

Section 3: Composition/Information on Ingredients

This product is to be considered as a mixture/preparation

Chemical Name	CAS Number	Weight Concentration %
Potassium Nitrate	7757-79-1	1.00% - 10.00%
Magnesium Sulfate	7487-88-9	1.00% - 10.00%

Section 4: First-Aid Measures

General information

In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person or a person with cramps.

In case of inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty.

In case of skin contact

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In case of ingestion

Rinse mouth and drink plenty of water. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

The following symptoms may occur:

In case of inhalationIrritation to respiratory tract
Delayed lung effects after short term exposure to thermal degradation productsIn case of skin contactMay cause redness or irritationIn case of eye contactMay cause redness or irritationIn case of ingestionIngestion of large amounts may cause:

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Unsuitable material: Use any suitable mean for extinguishing surrounding fire. None, but attention should be paid to compatibility with chemicals surrounding.

Specific hazards arising from the chemical

Thermal decomposition can lead to the escape of toxic/corrosive gases and vapours. Thermal decomposition products: Nitrous oxides (NOx), nitrites, phosphorus oxides, ammonia and metallic oxides.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and chemical protective clothing.

Section 6: Accidental Release Measures

Personal precautions

Provide adequate ventilation. Wear personal protection equipment (Section 8).

Environmental precautions

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal or recovery.Unsuitable material for containment/taking up:None specified

Other information

None

Section 7: Handling and Storage

Precautions for Safe Handling

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed.

Perchlorate containing product - Special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State regulations.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines

Occupational exposure limits

•	Potassium nitrate
PEL	Not Established
STEL/ceiling	Not Established
? TLVs® and BEIs®)	
TWA	Not Established
STEL/ceiling	Not Established
	STEL/ceiling TLVs® and BEIs®) TWA

Derived No-Effect Level (DNEL) suggested by the manufacturer

Workers (industrial/professional):	
DNEL Human, dermal, long term (repeated):	20 mg/kg/day (systemic)
DNEL Human, inhalation, long term (repeated):	30 mg/m3 (systemic)

Derived No-Effect Level (DNEL) is the level of exposure to the substance above which humans should not be exposed.

Engineering controls

Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye/face protection	Chemical goggles recommended.
Skin Protection	Nitrile rubber gloves, recommended.
Respiratory Protection	Wear respiratory protection, where airborne concentrations are expected
	to exceed exposure limits

General Hygiene Considerations

Avoid contact with eyes and skin. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

Section 9: Physical and Chemical Properties	
Information on basic physical and chemical properties	
Appearance	Solid, crystalline powder
Colour	white
Odour	Odourless
Odour Threshold	No applicable
pH value	No data available
Melting point / freezing range	No data available
Boiling temperature / boiling range	Not applicable
Flash point	Not applicable
Vapourisation rate / Evaporation rate	No data available
Flammable solids	Not flammable
Explosion limits (LEL, UEL)	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative Density	No data available
Solubility	> 100 g/L at 20°C/68°F (water)
Partition coefficient n-octanol /water	Not applicable
Auto Ignition temperature (AIT)	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidizer

Other information

None

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stable under normal storage and temperature conditions.

Possibility of hazardous reactions

None identified

Conditions to avoid

Keep away from flammable, combustible, strong acids, and reducing materials

Incompatible materials

Flammable, combustible, strong acids, and reducing substances under specific conditions

Hazardous decomposition products

Thermal decomposition products: Nitrous oxides (NOx), nitrites, phosphorus oxides, ammonia and metallic oxides.

Section 11: Toxicological Information

The following information mostly refers to the major component of the product.

Likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the skin and eyes. Ingestion of large amounts may cause gastrointestinal disturbances. May cause delayed lung effects after short term exposure to thermal degradation products.

Information on toxicological effects from short and long term exposure

There is no data for the mixture itself.

Acute toxicity

Acute oral toxicity Acute Toxicity Estimate for the mixture Acute dermal toxicity Acute Toxicity Estimate for the mixture Acute inhalation toxicity Acute Toxicity Estimate for the mixture Assessment / classification: Based on LD50: >2000 mg/kg bw (LD50: >2000 mg/kg pc (LC50:

(additivity formula)

(additivity formula)

Acute Toxicity Estimate for the mixture Does not contain acutely toxic ingredients/impurities. Assessment / classification: Based on available data for the ingredients of the mixture, the classification

criteria are not met.

Irritant and corrosive effects

There is no data for the mixture itself. Irritation to the skin This product does not contain relevant ingredients classified as corrosive or irritant to the skin in accordance with OSHA, 29 CFR 1910.1200 Irritation to eyes This product does not contain relevant ingredients classified as serious eye damage / eye irritant in accordance with OSHA, 29 CFR 1910.1200 Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Respiratory or skin sensitization

There is no data for the mixture itself. The product does not contain ingredients classified as a respiratory or skin sensitizer present at or above their cut-off value in accordance with OSHA.29 CFR 1910.1200 Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Genetic effects

The product does not contain ingredients classified as germ cell mutagens present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Reproductive toxicity

The product does not contain ingredients classified as a category 1 or category 2 reproductive toxicant or for effects on or via lactation present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200 Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Specific target organ toxicity (single exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard. Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Carcinogenicity

International Agency for Research on Cance	rr (IARC) No component of this product present at levels ≥0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
National Toxicology Program (NTP)	No component of this product present at levels ≥0.1% is identified as known or anticipated carcinogen by NTP.
29 CFR part 1910, subpart Z	No component of this product present at levels ≥0.1% is identified as carcinogen or potencial carcinogen by OSHA.
California Proposition 65	No component of this product present at levels ≥0.1% is identified as carcinogen by California Prop.65.
WHO (2003) Nitrate in drinking water	No association between nitrate exposure in humans and the risk of cancer
Assessment / classification:	Based on available data, the classification criteria is not met
Other Toxicological Information	

This product contains trace amounts of naturally-occurring perchlorate and iodate. Like other goitrogenic substances, perchlorate may affect iodine uptake by thyroid under specific conditions.

Section 12: Ecological Information

There is no data for the mixture itself. The following information mostly refers to the major component of the product.

Ecotoxicity

Aquatic Toxicity

Toxicity estimate for the mixture (summation method)

96-h L(E)C50>100 mg/LFish24-h E(E)C50>100 mg/LDaphnia magna (fresh water flea).72-h E(E)C50>100 mg/LAlgaeAssessment / classificationBased on available data for the ingredients of the mixture, the classification criteria are not met

Persistence and degradability

No data available for this mixture.

Bioaccumulative potential

Low potential for bioaccumulation based on physicochemical properties of main components.

Mobility in soil

The components of this mixture have a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

Other adverse effects

Excess nitrate leaching may enrich waters leading to eutrophication.

Section 13: Disposal Considerations

Disposal should be in accordance with applicable federal and state laws. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

Waste containing nitrates that exhibit the characteristic of ignitability has the EPA Hazardous Waste Number of D001 according to the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Perchlorate containing product - Special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State regulations.

Section 14: Transportation Information	
US DOT (49CFR part 172)	·
UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No
International Maritime Organization (IMDG Code)	
UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable

Packing group	Not applicable
Marine pollutant	No
Hazard label(s)	Not applicable
Special marking	No

International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA)

UN-No. UN Proper Shipping Name Hazard class Packing group Hazard label(s) Special marking Non dangerous good Not applicable Not applicable Not applicable Not applicable No

Special handling procedure

None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Other special precautions

None

Section 15: R	egulatory Information
US Federal	
SARA Title III Rules	
Section 311/312 Hazard Classes	
Acute Health Hazard No	
Chronic Health Hazard No	
Fire Hazard No	
Release of Pressure No	
Reactive Hazard No	
Section 313 Toxic Chemicals	
N511 Nitrate compounds (water dissociable	e; reportable only when in aqueous solution)
Section 302 Extremely Hazardous Substances (El	HS)/CERCLA Hazardous Substances
None ingredient is listed.	
NFPA 704/2012: National Fire Protection Associat	ion
Health 1	
Fire 0	
Reactivity 0	
Special None	
US State Regulations	
California Proposition 65	None ingredient is listed.
California Code of Regulations Title 22 (Health &	5
Safety Code), Chapter 33	See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/
Chemical Inventories	All ingradiants are listed
United States TSCA	All ingredients are listed
Canada DSL	All ingredients are listed
European Union (EINECS)	All ingredients are listed
Japan (METI)	All ingredients are listed

Section 16: Other Information

This SDS complies with 29 CFR part 1910 subpart Z (2012) and ANSI Standard Z400.1-2004

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