# Section 1: Identification

Product Name: Ferti-Maxx Landscape 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% - 45.00%
Perchlorate		<45 ppm
lodate		<25 ppm

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 inhalation	Irritation to respiratory tract	
	Delayed lung effects after short term exposi-	ure to thermal degradation products
In case of skin contact	May cause redness or irritation	
In case of eye contact	May cause redness or irritation	
In case of ingestion	Ingestion of large amounts may cause:	gastrointestinal disturbances

# 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
OSHA	PEL	Not Established
	STEL/ceiling	Not Established
ACGIH (2012	TLVs® and BEIs®)	
	TWA	Not Established
	STEL/ceiling	Not Established

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

Workers (industrial/professional):	
Potassium nitrate	
DNEL Human, dermal, long term (repeated):	20.8 mg/kg/day (systemic)
DNEL Human, inhalation, long term (repeated):	36.7 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, granular or crystalline powder
Colour	white to pale blue
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

# Section 10: Stability and Reactivity

### 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**

None identified

### Incompatible materials

None identified

### 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

### 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
 LD50:

 Acute Toxicity Estimate for the mixture
 >2000 mg/kg bw
 (additivity formula)

 Potassium nitrate
 >2000 mg/kg bw
 (additivity formula)

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

### Irritant and corrosive effects

Irritation to the skin	Result	Method
Potassium nitrate	non-irritant.	Equivalent/similar to OECD guideline 404
Assessment / classification:	Based on available data, the class	ssification criteria are not met
Irritation to eyes	Result	Method
Potassium nitrate	Not-irritating	OECD Guideline 405
Assessment / classification:	Based on available data, the classification criteria are not met	

### Respiratory or skin sensitization

Skin sensitization	Result	Method
Potassium nitrate	not sensitizing.	OECD Guideline 429

Respiratory sensitisation Assessment / classification:	•			
Genetic effectsThe product does not contain ingredients classified as germ cell mutagens.Bacterial (Ames Test)Potassium nitratenegativeChromosomal aberrations negativeNutation in mammalian cells negative				
Reproductive toxicity	Based on available data, the nction and fertility/developme		re not met	
Potassium nitrate	Adverse effects on sexual function and fertility/developmental toxicity         OECD guideline 422.         Potassium nitrate       No adverse effects on fertility/development (NOAEL >1500 mg/kg bw).         Assessment / classification:       Based on available data, the classification criteria are not met			ı bw).
<b>Specific target organ toxicity (single exposure)</b> The product does not contain relevant ingredients classified as Target Organ Toxicant. Practical experience / human evidence				
Potassium nitrate Assessment / classification:	No relevant effect has been Based on available data, the			assium nitrate.
<b>Specific target organ toxicity (repeated exposure)</b> The product does not contain relevant ingredients classified as Target Organ Toxicant. Organs affected: Effects Guideline			Guideline	
Potassium nitrate Assessment / classification:	None No ef Based on available data, the	fects (NOAEL >1500 mថ e classification criteria a		OECD 422
<b>Aspiration hazard</b> Physicochemical data and toxicological information does not indicate an aspiration hazard. Assessment / classification: Based on available data, the classification criteria are not met				
Carcinogenicity International Agency for Research on Cancer (IARC) ≥0.1% is identified as probable, possible or			sible or	
National Toxicology Program	ו (NTP)	confirmed human card No component of this ≥0.1% is identified as carcinogen by NTP.	product prese	nt at levels
29 CFR part 1910, subpart Z		No component of this ≥0.1% is identified as carcinogen by OSHA.	carcinogen or	
California Proposition 65		No component of this $\geq 0.1\%$ is identified as Prop.65.	product prese	
WHO (2003) Nitrate in drinki	ng water	No association betwee humans and the risk of	•	osure in
Assessment / classification:	Based on ava	ailable data, the classific		s not met
Other Toxicological Inform	ation			

### 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**

Potassium nitrate 96-h LC50 1378 mg/L 24-h EC50 490 mg/L 10 d EC50 > 1700 mg/LAssessment / classification

Poecilia reticulata (freshwater fish) Daphnia magna (fresh water flea). Several algae species Based on available data, the classification criteria are not met

## Persistence and degradability

The product contains mainly inorganic nitrate and phosphate salts. In aqueous solutions, these salts dissociate into their respective ions. Phosphate ions are finally incorporated into the Phosphorus cycle. Under anoxic conditions, denitrification occurs and nitrate is ultimately converted into molecular nitrogen as part of the Nitrogen cycle.

### **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 aroundwater.

#### Other adverse effects

US DOT (49CFR part 172)

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

UN-No.	Non dange
UN Proper Shipping Name	Not applica
Hazard class	Not applica
Packing group	Not applica
Hazard label(s)	Not applica
Special marking	No
Special Provision	No
International Maritime Organiz	ation (IMDG Co
UN-No.	Non dange
UN Proper Shipping Name	Not applica
Hazard class	Not applica
Packing group	Not applica

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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: Regulatory 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-		
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 &	······	
Safety Code), Chapter 33	See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/	
Chemical Inventories		
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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