Section 1: Identification

Product Name: Ferti-Maxx Balance 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: I	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 exposu	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:Use any suitable mean for extinguishing surrounding fire. Unsuitable material: 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 nit	rate	
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

internation on subie physical and onem	
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

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

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 toxicityLD50:Acute Toxicity Estimate for the mixture>2000 mg/kg bw(additivity formula)Potassium nitrate>2000 mg/kg bwAssessment / 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	sification criteria are not met
Irritation to eyes	Result	Method
Potassium nitrate	Not-irritating	OECD Guideline 405
Assessment / classification:	Based on available data, the class	sification criteria are not met

Respiratory or skin sensitization

Skin sensitization	Result	Method
Potassium nitrate	not sensitizing.	OECD Guideline 429
Respiratory sensitisation	No information available.	

Assessment / classification: Genetic effects	Based on available d	ata, the classification criteria	are not met	
The product does not contain	n ingredients classified rial (Ames Test)	l as germ cell mutagens. Chromosomal aberrations	Mutation in m	ammalian cells
Potassium nitrate negati	ve	negative ata, the classification criteria	negative are not met	
Reproductive toxicity Adverse effects on sexual fu	nction and fertility/dev	elopmental toxicity		
Potassium nitrate	OECD guideline 422.		1 >1500 mg/kg	n bw()
		ata, the classification criteria		j Dw).
Specific target organ toxic		classified as Target Organ To	xicant	
	Practical experience	/ human evidence		
Potassium nitrate Assessment / classification:		s been observed after single of attain a single of a state of a single of a state of a state of a single of a sing		tassium nitrate.
Specific target organ toxic			vicent	
The product does not contain	Organs affected:	classified as Target Organ To Effects	XICANI.	Guideline
Potassium nitrate Assessment / classification:	None Based on available d	No effects (NOAEL >1500 m ata, the classification criteria a		OECD 422
Aspiration hazard 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 Res	earch on Cancer (IAR	C) No component of this ≥0.1% is identified as		
National Toxicology Program	n (NTP)	confirmed human ca No component of this		
inalienal residency riegian		≥0.1% is identified as	•	
29 CFR part 1910, subpart Z	2	carcinogen by NTP. No component of this		
		≥0.1% is identified as carcinogen by OSHA	v	⁻ potencial
California Proposition 65		No component of this ≥0.1% is identified as	s product prese	
WHO (2003) Nitrate in drinki	ing water	Prop.65. No association betwe	een nitrate exp	osure in
Assessment / classification:	•	humans and the risk on available data, the classif	of cancer	
	Dased	on avaliable uata, the classif		וש ווטנ ווופנ

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/L
Assessment / classi	fication

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 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

Non dangerous good Not applicable Not applicable Not applicable Not applicable

US DOT (49CFR part 172)

UN-No.
UN Proper Shipping Name
Hazard class
Packing group
Hazard label(s)
Special marking
Special Provision

ecial Provision No

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.Non dangerous goodUN Proper Shipping NameNot applicableHazard classNot applicable

Packing group	
Hazard label(s)	
Special marking	

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 dissociabl	e; reportable only when in aqueous solution)
Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances	
None ingredient is listed.	
NFPA 704/2012: National Fire Protection Association	
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

NON-WARRANTY. The information presented in this publication is based upon the research and experience of EZ-FLO Fertilizer Systems. No representation or warranty is made, however, concerning the accuracy or completeness of express or implied, including without limitation any warranty of merchantability or fitness for any particular purposes, and no warranty or representation shall be implied by law or otherwise. Any products sold by EZ-FLO Fertilizer Systems are not warranted as suitable for any particular purpose to the buyer. The suitability of any products for any purpose particular to the buyer is for the buyer to determine. EZ-FLO Fertilizer Systems assumes no responsibility for the section of products suitable to the particular purposes of any particular buyer. EZ-FLO Fertilizer Systems shall in no way be liable for any special, incidental, or consequential damages.