SAFETY DATA SHEET

Section 1: Identification

Product Name: Ferti-Maxx Landscape Product Use: Dry fertilizer mixture

Not recommended for: No available information

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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:

Delayed lung effects after short term exposure 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 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

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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
Auto Ignition temperature (AIT)
Decomposition temperature
Viscosity
Not applicable
Not available
Not applicable
Not applicable
Not applicable
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

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 classification 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 No information available.

Assessment / classification: Based on available data, the classification criteria are not met

Genetic effects

The product does not contain ingredients classified as germ cell mutagens.

Bacterial (Ames Test) Chromosomal aberrations Mutation in mammalian cells

Potassium nitrate negative negative negative negative Assessment / classification: Based on available data, the classification criteria are not met

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

The product does not contain relevant ingredients classified as Target Organ Toxicant.

Practical experience / human evidence

Potassium nitrate No relevant effect has been observed after single exposure to potassium nitrate.

Assessment / classification: Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

The product does not contain relevant ingredients classified as Target Organ Toxicant.

Organs affected: Effects Guideline

Potassium nitrate None No effects (NOAEL >1500 mg/kg bw) OECD 422

Assessment / classification: Based on available data, 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, the classification criteria are not met

Carcinogenicity

International Agency for Research on Cancer (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

Potassium nitrate

96-h LC50 1378 mg/L Poecilia reticulata (freshwater fish) 24-h EC50 490 mg/L Daphnia magna (fresh water flea).

10 d EC50 > 1700 mg/LSeveral algae species

Based on available data, the classification criteria are not met Assessment / classification

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

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)

Non dangerous good UN-No.

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 good

UN Proper Shipping Name
Hazard class
Packing group
Hazard label(s)
Not applicable
Not applicable
Not applicable

Special marking 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; 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
Canada DSL
European Union (EINECS)
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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