

# SAFETY DATA SHEET

## Section 1: Identification

Product Name: LESCO Turf Nutrient  
 Product Use: Dry fertilizer mixture  
 Not recommended for: No available information

LESCO, Inc.  
 1385 East 36th Street  
 Cleveland, OH 44114  
 www.siteone.com  
 Emergency Phone: (800)347-4272  
 Fax: (248) 581-1428

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
Iodate		<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 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.

<b>Section 5: Fire-Fighting Measures</b>
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**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 (NO<sub>x</sub>), nitrites, phosphorus oxides, ammonia and metallic oxides.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and chemical protective clothing.

<b>Section 6: Accidental Release Measures</b>
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**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

<b>Section 7: Handling and Storage</b>
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**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](http://www.dtsc.ca.gov/hazardouswaste/perchlorate) and Section 15 for more information regarding California State regulations.

<b>Section 8: Exposure Controls / Personal Protection</b>
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**Exposure Guidelines**

## Occupational exposure limits

OSHA	PEL	Potassium nitrate
	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/m <sup>3</sup> (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

None

## 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 (NO<sub>x</sub>), 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

	Result	Method
Irritation to the skin		
Potassium nitrate	non-irritant.	Equivalent/similar to OECD guideline 404

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

	Result	Method
Irritation to eyes		
Potassium nitrate	Not-irritating	OECD Guideline 405

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

### Respiratory or skin sensitization

	Result	Method
Skin sensitization		
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
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  $\geq 0.1\%$  is identified as probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program (NTP)

No component of this product present at levels  $\geq 0.1\%$  is identified as known or anticipated carcinogen by NTP.

29 CFR part 1910, subpart Z

No component of this product present at levels  $\geq 0.1\%$  is identified as carcinogen or potential carcinogen by OSHA.

California Proposition 65

No component of this product present at levels  $\geq 0.1\%$  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	<i>Poecilia reticulata</i> (freshwater fish)
24-h EC50	490 mg/L	<i>Daphnia magna</i> (fresh water flea).
10 d EC50	> 1700 mg/L	Several algae species
Assessment / classification		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](http://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.	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 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

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

LESCO urges each customer or recipient of this Safety Data Sheet (SDS) to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and is based on our current knowledge. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. It is the buyer's/user's responsibility to ensure that his or her activities comply with all federal, state, provincial and local laws. The information presented here pertains only to the product as shipped. It is the buyer's/user's duty to determine the conditions necessary for safe use of this product.

The SDS serves different purposes than, and DOES NOT REPLACE OR MODIFY, THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.