

Nutri-Pel

SDS Preparation Date (mm/dd/yyyy): 03/26/2021

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Nutri-Pel**

**Other means of identification** : None reported.

**Recommended use of the chemical and restrictions on use**

: Fertilizer  
Use pattern: Professional Use Only  
Recommended restrictions: None known.

**Chemical family** : Mixture

**Name, address, and telephone number of the manufacturer:**

**Veolia ES Technical Solutions, LLC**

53 State Street, 14th Floor  
Boston, MA,  
02109

Manufacturer's Telephone # : (617) 849 6600

**Name, address, and telephone number of the supplier:**

**Veolia**

9 Leslie Street  
Toronto, ON, Canada  
M4M 2M9

Supplier's Telephone # : (416) 406 0801 (8 am to 4 pm)

**24 Hr. Emergency Tel #** : 877-818-0087 (Chemtel)

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Dark pellets or granules.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Serious eye damage/eye irritation - Category 1

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

**DANGER!**

*Hazard statement(s)*

Causes serious eye damage.



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### Precautionary statement(s)

Wear eye/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

### Other hazards

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. Direct skin contact may cause slight or mild, transient irritation. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Ferrous chloride	Iron Chloride	7758-94-3	1.0 - 5.0
Activated Sewage Sludge (dried microbes)	Not available.	N/Av	85.5 - 91.5
Water	H2O	7732-18-5	4.0 - 8.0
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	Cationic Polyelectrolyte Polymer	69418-26-4	1.0 - 5.0

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical. Trace metals and volatile organics may be detected in the finished material in quantities typically less than 1.0%, most less than 0.1% by weight. These components and pathogenic agents are of a low quantity to allow this product to meet US EPA 40CFR Part 503 Class A Exceptional Quality biosolids requirements.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Flush eyes with water for at least 20 minutes. Remove contact lenses, if present and easy to do. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

- : Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result. Direct skin contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

#### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

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### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

### **Special hazards arising from the substance or mixture / Conditions of flammability**

- : Not flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Bulk wetted material may generate heat upon storage.

### **Flammability classification (OSHA 29 CFR 1910.106)**

- : Not flammable.

### **Hazardous combustion products**

- : Iron oxides. and other irritating fumes and smoke

### **Special protective equipment and precautions for firefighters**

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

#### *Special fire-fighting procedures*

- : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

### **Methods and material for containment and cleaning up**

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Contact the proper local authorities.

### **Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): Ferrous Chloride (100 lbs / 45.4 kg)

## SECTION 7. HANDLING AND STORAGE

### **Precautions for safe handling**

- : Use only outdoors or in a well-ventilated area. Wear eye/face protection. Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Keep away from incompatibles. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

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**Incompatible materials** : Strong acids and oxidizing agents, Alkalies.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ferrous chloride	N/Av	N/Av	N/Av	N/Av
Activated Sewage Sludge (dried microbes)	N/Av	N/Av	N/Av	N/Av
Water	N/Av	N/Av	N/Av	N/Av
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	N/Av	N/Av	N/Av	N/Av

ACGIH Nuisance dust limit of 10mg/m<sup>3</sup> (inhalable) and 3mg/m<sup>3</sup> (respirable) may apply to this product.

#### Exposure controls

##### **Ventilation and engineering measures**

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.

##### **Respiratory protection**

: Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.

##### **Skin protection**

: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

##### **Eye / face protection**

: Chemical goggles must be worn to prevent dusts from entering the eyes.

##### **Other protective equipment**

: Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

##### **General hygiene considerations**

: Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Dark pellets or granules.

**Odour** : No information available.

**Odour threshold** : No information available.

**pH** : 6.7

**Melting Point/Freezing point** : Not available.

##### **Initial boiling point and boiling range**

: Not available.

**Flash point** : 140°C

**Flashpoint (Method)** : Not applicable.

**Evaporation rate (BuAe = 1)** : No information available.

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**Flammability (solid, gas)** : The product is not flammable.  
**Lower flammable limit (% by vol.)**  
: N/Ap  
**Upper flammable limit (% by vol.)**  
: N/Ap  
**Oxidizing properties** : None.  
**Explosive properties** : Not explosive  
**Vapour pressure** : No information available.  
**Vapour density** : No information available.  
**Relative density / Specific gravity**  
: Not available.  
**Solubility in water** : Slight.  
**Other solubility(ies)** : No information available.  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**  
: Not applicable.  
**Auto-ignition temperature** : 200°C  
**Decomposition temperature** : No information available.  
**Viscosity** : Not applicable.  
**Volatiles (% by weight)** : No information available.  
**Volatile organic Compounds (VOC's)**  
: No information available.  
**Absolute pressure of container**  
: Not available.  
**Flame projection length** : Not available.  
**Other physical/chemical comments**  
: No additional information.

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity** : Not normally reactive.  
**Chemical stability** : Stable under normal conditions.  
**Possibility of hazardous reactions**  
: Hazardous polymerization does not occur.  
**Conditions to avoid** : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid dust formation.  
**Incompatible materials** : Avoid contact with incompatible materials. Strong acids and oxidizing agents; Strong alkalis  
**Hazardous decomposition products**  
: None known, refer to hazardous combustion products in Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:**

**Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES  
**Routes of exposure skin absorption**  
: NO

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### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

*Sign and symptoms Inhalation*

: Dust may cause sore throat and pains in the lungs and chest.

*Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

*Sign and symptoms skin*

: May cause mild skin irritation on prolonged contact.

*Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result.

#### Potential Chronic Health Effects

: Prolonged exposure can cause redness, swelling, itching, cracking of the skin, dermatitis and sensitization.

#### Mutagenicity

: Not expected to be mutagenic in humans.

#### Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

#### Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

#### Specific target organ effects

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

#### Synergistic materials

: No information available.

#### Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

ATE oral = 9000mg/kg

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ferrous chloride	N/Av	450 mg/kg	>2000 mg/kg
Activated Sewage Sludge (dried microbes)	N/Av	N/Av	N/Av
Water	N/Av	>90 mL/kg	N/Av
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	N/Av	N/Av	N/Av

#### Other important toxicological hazards

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

: See the following tables for individual ingredient ecotoxicity data.



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### Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Ferrous chloride	7758-94-3	46 mg/L (Oryzias latipes)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Ferrous chloride	7758-94-3	19 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ferrous chloride	7758-94-3	6.9mg/L (Green algae)	N/Av	None.

### Persistence and degradability

: No data is available on the product itself.

### Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ferrous chloride (CAS 7758-94-3)	N/Av	N/Av
Water (CAS 7732-18-5)	N/Av	

**Mobility in soil** : No data is available on the product itself.

### Other Adverse Environmental effects

: No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal

: Handle waste according to recommendations in Section 7. Empty containers may contain hazardous residues.

### Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

### RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.





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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	This material is not regulated for transport to, from or within the United States unless individual packages contain material equal to or greater than the US CERCLA reportable quantity shown in Section 6. US CERCLA Reportable quantity (RQ): (100 lbs / 45.4 kg)				
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : This information is not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:





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Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Ferrous chloride	7758-94-3	Yes	100 lb/ 45.4 kg	N/Av	No	N/Ap
Activated Sewage Sludge (dried microbes)	N/Av	NS	None.	None.	No	N/Ap
Water	7732-18-5	Yes	N/Ap	N/Av	No	N/Ap
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamamide	69418-26-4	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Serious eye damage Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ferrous chloride	7758-94-3	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Activated Sewage Sludge (dried microbes)	N/Av	No	N/Ap	NS	NS	NS	NS	NS	NS
Water	7732-18-5	No	N/Ap	No	No	No	No	No	No
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamamide	69418-26-4	No	N/Ap	No	No	No	No	No	No

### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL). WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### International Information:

Components listed below are present on the following International Inventory list:

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Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ferrous chloride	7758-94-3	231-843-4	Present	Present	(1)-213	KE-21085	Present	HSR004035
Activated Sewage Sludge (dried microbes)	N/Av		N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
Water	7732-18-5	231-791-2	Present	Listed	Listed	KE-35400	Present	Listed
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	N/Av	Present	Present	(6)-1817	KE-13136	Present	N/Av

### SECTION 16. OTHER INFORMATION

**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Av: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
- 2. ECHA - European Chemical Agency
- 3. Canadian Centre for Occupational Health and Safety, CInfoWeb databases, (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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