

Veolia Water

WHMIS Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: NUTRI-PEL

Chemical Family/Product Use: Fertilizer product manufactured from various microbes used to digest sewerage sludge.

Manufacturer's Name: Veolia Water Canada, Inc.

Address: 1015 Lakeshore Blvd. East, P.O. Box 75309, Toronto ON, M4M 1B3 Canada

Product/Technical Information Phone Number: (416) 406-0801

Medical/Handling Emergency Phone Number: CHEMTREC 1-800-424-9300

Transportation Emergency Phone Number: CHEMTREC 1-800-424-9300

MSDS Prepared by: Mark Rupke

Issue Date: March 20, 2008

SECTION 2 – COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>	<u>LD50</u>
Activated Sewage Sludge (dried microbes)	85.5% - 91.5%	NA	not determined
Water	4% - 8%	7732-18-5	not determined
Ferrous Chloride	3% - 5% Iron (Fe) by weight	7758-94-3	not determined
Cationic Polyelectrolyte Polymer (non hazardous)	1.5%	69418-26-4	not determined

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 3 – HAZARDS IDENTIFICATION

Appearance & Odor: dark pellets or granules

Emergency Overview: Material may cause skin or eye irritation.

Fire & Explosion Hazards: Fire will produce carbon monoxide, carbon dioxide, oxides of nitrogen and other undefined products of organic combustion. Fine dust dispersion in air may form an explosive mixture. Bulk wetted material may generate heat upon storage. Material decomposition may lead to the generation of explosive gases in confined spaces or containers.

Primary Route(s) of Exposure: skin contact and/or ingestion

Inhalation – Acute Effects: Not an expected route of exposure during customary and reasonably foreseeable use due to low vapor pressure.

Skin Contact – Acute Effects: Skin contact may cause irritation.

Eye Contact – Acute Effects: Eye contact may cause irritation.

Ingestion – Acute Effects: Not an expected route of exposure during customary and reasonably foreseeable use.

SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Not an expected route of exposure. If inhalation occurs, remove affected person from area to fresh air.

Skin Contact First Aid: After using product, remove soiled clothing and wash skin with soap and water. Obtain medical assistance if irritation develops.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Seek medical assistance if irritation develops.

Ingestion First Aid: Not an expected route of exposure. If ingested and gastrointestinal discomfort occurs, consult a physician.

Medical Conditions Aggravated: Skin contact may aggravate damaged skin. Material may contain sensitizers in quantities <1.0%. Asthmatics exposed to excessive dusts may have trouble breathing.

Note to Physician: No specific antidote. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: 140 degrees C

Auto Ignition Temperature: 200 degrees C

Upper/Lower Explosion Limits: LEL – ND, UEL - ND

Extinguishing Media: water, dry chemical, foam

Fire Fighting Procedures: No special procedures. Full protective gear including self-contained breathing apparatus in positive pressure mode should be worn as in any fire-fighting situation. Do not breathe fumes. Prevent runoff from entering drains, sewers or any body of water. Becomes slippery when wet, guard against falls.

Fire & Explosion Hazards: Fire will produce carbon monoxide, carbon dioxide, oxides of nitrogen and other undefined products of organic combustion. Fine dust dispersion in air may form an explosive mixture. Bulk wetted material may generate heat upon storage. Material decomposition may lead to the generation of explosive gases in confined spaces or containers.

Hazardous Products of Decomposition and/or Combustion Fire will produce carbon monoxide, carbon dioxide, oxides of nitrogen and other undefined products of organic combustion. Entry to confined spaces where this material has been stored should be made only after the space has been evaluated for the presence of explosive and/or asphyxiating gases, including the measurement of oxygen levels.

Conditions of flammability: Bulk wetted material may generate heat upon storage.

Sensitivity to Static Discharge: None known.

Sensitivity to Impact: None known.

NFPA Ratings: HEALTH- 1 FLAMMABILITY- 1 REACTIVITY- 0 OTHER- none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Any spill outside of normal application sites should be cleaned up in a timely manner. Sweep, vacuum or shovel material into labeled container. If at all possible, reuse product. Material will be slippery on pavement. Clean-up personnel should wear personal protective equipment. Avoid contamination of waterways. Ensure that disposal is in compliance with local, state or federal regulations.

Confined space entry procedures must be used whenever entry is made into containers or vessels which hold or have held this material.

SECTION 7 – HANDLING AND STORAGE

Handling: Good housekeeping procedures and personal hygiene should be practiced. Do not eat or drink while using product and avoid hand to mouth/face contact. Avoid breathing dust. Wash after handling. Do not contaminate water by disposal of equipment washwaters.

Storage: Store in a cool, dry area out of reach of children and animals. Keep dry. Bulk wetted material may generate heat upon storage. Confined space entry procedures must be used whenever entry is made into containers or vessels which hold or have held this material.

General Comments: Empty containers of this material retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: Inhalation exposure is not expected under normal use. A respirator should be used if exposure causes symptoms of irritation or sensitivity.

Skin Protection: Special equipment is not required. Gloves should be worn. Keep wounds covered with clean, dry bandages. Wash hands thoroughly with soap and water after contact.

Eye Protection: Wear goggles or safety glasses to prevent eye contact.

Ventilation Protection: Provide sufficient ventilation when working in confined areas.

Other Protection: Hand-washing stations with clean water and mild soap should be readily available.

Exposure Limits:

ACGIH Nuisance dust limit of 10mg/m³ (inhalable) and 3mg/m³ (respirable) may apply to this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour: dark pellets or granules
Vapor Pressure: not applicable
Boiling Point: not applicable
Specific Gravity: not determined
Volatile Percentage: not determined
Evaporation Rate: not applicable
Coefficient of water/oil distribution: not determined
Vapor Density (Air=1): not applicable
Melting Point: not determined
Solubility in Water: slight
pH: variable, approx. 6.7
Odour Threshold: not determined

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under ordinary use and storage conditions. Material can decompose under confined anaerobic conditions to form explosive and toxic asphyxiating gases.
Incompatibilities: Strong acids, alkalis and oxidizing agents.
Polymerization: Hazardous polymerization will not occur.
Decomposition: Fire will produce carbon monoxide, carbon dioxide, oxides of nitrogen and other undefined products of organic combustion.
Conditions to Avoid: Avoid heat and sunlight. Product will absorb moisture in highly humid areas.

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation – Acute/Chronic: Not an expected route of exposure during customary and reasonably foreseeable use due to low vapor pressure.
Skin Contact – Acute/Chronic: Skin contact may cause irritation.
Eye Contact – Acute: Eye contact may cause irritation.
Ingestion – Acute/Chronic: Not an expected route of exposure during customary and reasonably foreseeable use. May cause darkened stools if ingested in large amounts.
Carcinogenicity/Mutagenicity: May contain substances considered to be carcinogens by IARC, OSHA and NTP, but should not be present in quantities >0.1%.
Teratogenicity: There are no known teratogenic effects.
Reproductive Effects: There are no known reproductive effects.
Neurotoxicity: There are no known neurotoxic effects.
Other Effects: There are no other known toxic effects.
Target Organs: skin and eyes
Toxicologically Synergistic Products: None known.

SECTION 12 – ECOLOGICAL INFORMATION

When applied to land in accordance with Federal and State regulatory guidelines and accepted agronomic practices, there are limited, if any, adverse effects on plants, animals or aquatic life. Entry into surface water systems should be avoided since the nutrient content of this material will increase growth rates of affected plant populations.

SECTION 13 – DISPOSAL CONSIDERATIONS

Material should be recovered and saved for use whenever possible. Local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations.

Confined space entry procedures must be used whenever entry is made into containers or vessels which hold or have held this material.

SECTION 14 – TRANSPORTATION INFORMATION

TDG Shipping Description: not regulated for transport

DOT Shipping Description: not regulated for transport

SECTION 15 – REGULATORY INFORMATION

SARA SECTION 302 (40CFR355.30): May contain substances that are listed in Section 302 but they would be present in quantities <1.0% and it is not likely that material use would reach the reportable threshold.

SARA SECTION 313 (40CFR372.65): May contain substances that are listed in Section 313 but they would be present in quantities <1.0% and it is not likely that material use would reach the reportable threshold.

California Only-Proposition 65 Warning: This product contains detectable quantities of chemicals known cause cancer, birth defects or other reproductive harm. This notice in no way implies that we have any evidence or experience to indicate that any genuine hazard of cancer, birth defects, or reproductive harm results from the normal, proper handling described on our labels and related literature.

Canadian WHMIS class(es): to be determined

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the user's responsibility to ensure that its activities comply with federal, state, provincial and local laws.