

USA – According to the OSHA Hazard Communication Standard (2012)  
 Canada – According to the Hazardous Products Regulations (WHMIS 2015)  
 Mexico – According to NMX-R-019-SCFI-2011 and NOM-018-STPS-2000

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<b>Trade name:</b>	<b>Deodor Grans®</b>
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**SECTION 1: Identification / Identification of the dangerous chemical substance or mixture and the supplier or manufacturer**

**Product identifier:** Deodor Grans® Deodorizer Granules  
**Product Code Number:** 90-7820 (15lb pail); 90-7800 (15lb bag in box)  
**Recommended use:** Ideal for deodorizing in garbage dumpsters, trucks, trash cans, schools, outdoor dining areas and for sprinkling in ash trays.  
**Recommended restrictions:** Uses other than as recommended above.

**Manufacturer/Importer/Supplier/Distributor information:**

**Company Name:** Vaportek Inc.  
**Company Address:** W226 N6339 Village Drive  
 Sussex, WI, 53089  
 USA  
**Website:** [www.vaportek.com](http://www.vaportek.com)  
[info@vaportek.com](mailto:info@vaportek.com)  
**Company Telephone:** 1-800-237-6367  
 (262) 246-5060  
 Hours of operation: 7:00 AM – 4:00 PM Mon-Fri. (CST)  
**Emergency phone number:** 1-800-237-6367  
 (262) 246-5060  
 Hours of operation: 7:00 AM – 4:00 PM Mon-Fri. (CST)

**SECTION 2: Hazard(s) identification**

**Classification of the chemical in accordance with the OSHA Hazard Communication Standard (2012) – Hazcom 2012, Hazardous Products Regulations (2015) (Canada) Workplace Hazardous Materials Information System (WHMIS 2015) and Mexican NMX-R-019-SCFI-2011 and NOM-018-STPS-2000:**

**Classification of the Substance or Mixture (USA, Canada)**

Eye Irritation Cat 2A	H319	Causes serious eye irritation
Skin Sensitization Cat 1	H317	May cause an allergic skin reaction
STOT-SE – Cat 3, RI	H335	May cause respiratory irritation

**Label Elements (USA, Canada):**

Pictograms :



GHS07

Signal Word : WARNING  
 Hazard Phrases : H317 – May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H335 – May cause respiratory irritation

Precautionary Phrases : P261 – Avoid breathing dust  
 P271 – Use only outdoors or in a well-ventilated area  
 P264 - Wash clothing, hands, forearms and face thoroughly after handling  
 P272 – Contaminated work clothing must not be allowed out of the workplace.  
 P280 - - Wear protective clothing, protective gloves, eye protection  
 P302+P352 – IF ON SKIN: Wash with soap and water  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P333+P313 – If skin irritation or rash occurs: Get medical advice/attention  
 P337+P313 – If eye irritation persists: Get medical advice/attention  
 P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 – Call a poison center/doctor if you feel unwell  
 P405– Store locked up  
 P363 - Wash contaminated clothing before reuse  
 P501 - Dispose of contents/container to a licensed waste disposal contractor or collection site.

**Hazard(s) or Health and Physical Hazard(s) not otherwise Classified (HNOC):** Not applicable.

**Percentage of ingredient(s) of unknown acute toxicity:**

1% of the mixture consists of ingredients of unknown acute toxicity (oral).  
 2% of the mixture consists of ingredients of unknown acute toxicity (dermal and inhalation).

**Classification of the Substance or Mixture (Mexico)**

Eye Irritation Cat 2A	H319	Causes serious eye irritation
Skin Irritation Cat 3	H316	Causes mild skin irritation
Skin Sensitization Cat 1	H317	May cause an allergic skin reaction
STOT-SE – Cat 3, RI	H335	May cause respiratory irritation

**Label Elements (Mexico):**

Pictograms (GHS-MX) :   
 GHS07

Signal Word (GHS-MX) : WARNING

Hazard Phrases (GHS-MX) : H316 – Causes mild skin irritation  
 H317 – May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H335 – May cause respiratory irritation

Precautionary Phrases (GHS-MX) : P261 – Avoid breathing dust  
 P271 – Use only outdoors or in a well-ventilated area  
 P264 - Wash clothing, hands, forearms and face thoroughly after handling  
 P272 – Contaminated work clothing must not be allowed out of the workplace.  
 P280 - - Wear protective clothing, protective gloves, eye protection  
 P302+P352 – IF ON SKIN: Wash with soap and water  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P333+P313 – If skin irritation or rash occurs: Get medical advice/attention  
 P337+P313 – If eye irritation persists: Get medical advice/attention  
 P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 – Call a poison center/doctor if you feel unwell  
 P405– Store locked up  
 P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/container to a licensed waste disposal contractor or collection site.

### SECTION 3: Composition/information on ingredients

#### Mixture:

Name	CAS Registry Number	Concentration (% weight)
Diatomaceous earth, calcined	61790-53-2	97%
Citronella Java Oil	8000-29-1	1%
(R)-p-mentha-1,8-diene (d-limonene)	5989-27-5	0.40%
Cinnamal (Cinnamaldehyde)	104-55-2	0.17%
Clove Leaf Oil	8000-34-8	0.1%

### SECTION 4: First-aid Measures

#### Description of necessary measures:

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms occur..

**Skin contact:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical advice/attention.

**Ingestion:** If ingested, and if person is conscious and lucid, rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Drink water and contact a physician.

**Most important symptoms/effects, acute and delayed:** May cause eye irritation including tearing and redness. May cause skin sensitization which may result in redness, irritation and swelling. May cause mild skin irritation. Inhalation may cause dryness of the nasal passages, and lung congestion including coughing and throat irritation.

**Indication of immediate medical attention and special treatment needed:** No additional information available.

### SECTION 5: Fire-fighting measures

**Suitable extinguishing media:** Product is not flammable. Use appropriate extinguishing media for surrounding materials.

**Unsuitable extinguishing media:** None known

#### Specific hazards arising from the chemical:

Not expected to be a fire/explosion hazard under normal conditions of use. Heat may build pressure and rupture closed containers. Thermal decomposition may generate: irritating vapours, carbon dioxide, carbon monoxide and unidentified organic compounds.

**Special protective equipment and precautions for fire-fighters:** Exercise caution when fighting any chemical fire. Wear complete protective clothing including self-contained breathing apparatus.

### SECTION 6: Accidental release measures / Measures to be taken in case of accidental spill or accidental release

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate Personal Protective Equipment (PPE) (See information provided in Section 8). Avoid inhalation of spilled product and avoid all contact with eyes, skin and clothing.

**Methods and material for containment and cleaning up:** Sweep up spilled material, taking care to avoid creating dusts. Wear appropriate PPE when cleaning up spilled material and if possible return spilled product to process. If spilled product has become unusable, then dispose of in accordance with local requirements. (See Section 13).

**SECTION 7: Handling and Storage**

**Precautions for safe handling:** Wear appropriate personal protective equipment (See Section 8). Do not inhale dusts of the product. Wash hands, forearms, face and clothing thoroughly after handling the product. Contaminated work clothing should not leave the workplace. Do not eat, drink or smoke while handling this product.

**Conditions for safe storage, including any incompatibles:** Keep in a cool, dry and well-ventilated area. Avoid handling and storage measures that create dust.

**SECTION 8: Exposure controls/personal protection**

**Occupational exposure limits:**

<b>Diatomaceous earth, natural</b>			
<b>ACGIH TLV® TWA</b>	<b>OSHA PEL</b>	<b>NIOSH REL</b>	<b>Mexico TWA</b>
Not applicable	80 mg/m <sup>3</sup> (% SiO <sub>2</sub> – total dust)	6 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)

**Appropriate engineering controls:** Use engineering controls to maintain airborne levels below recommended exposure limits, if necessary. Local ventilation is recommended. Ventilation rates should be matched to conditions.

**Individual protection measures, such as personal protective equipment:**

*Eye/face protection:* Wear protective safety goggles to protect eyes from exposure to dust.

*Skin and Hand protection:* Avoid skin contact. Wear suitable protective clothing and protective gloves.

*Respiratory protection:* If engineering controls do not keep airborne concentrations below established exposure limits an approved respirator must be worn. Respirators fitted with filters certified for standard 42CFR84 (or local equivalent) under series N95 should be worn when dust is present. If the dust concentration is less than ten (10 times the exposure limit use a quarter or half-mask respirator with an N95 dust filter or a single use dust mask rated N95. If dust concentration is greater than ten (10) times and less than fifty (50) times the exposure limit, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two hundred (200) times the exposure limit use a power air-purifying (positive pressure) respirator with a replaceable N95 filter. If dust concentration is greater than two hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure) with full face piece, hood or helmet.

*Thermal hazards:* Not applicable based on recommended uses.

*General provisions:* Minimize exposure and generation of dust. Ensure appropriate personal protective equipment is available in the workplace. Respect all appropriate legislation regarding health and safety in the workplace and follow all recommends from your health and safety committee.

**SECTION 9: Physical and chemical properties**

<b>Appearance:</b>	Slightly tan, dry granule
<b>Odor/odour:</b>	Citronella scent (lemon-like)
<b>Odor/odour threshold:</b>	Not applicable
<b>pH:</b>	7 (10% suspension)
<b>Melting point/freezing point:</b>	>1300°C
<b>Initial Boiling Point and boiling range:</b>	Not applicable
<b>Flash point:</b>	Not applicable
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower %:</b>	Not applicable

<b>Flammability limit – upper (%):</b>	Not applicable
<b>Explosive limit – lower (%):</b>	Not applicable
<b>Explosive limit – upper (%):</b>	Not applicable
<b>Vapor/Vapour pressure:</b>	Not available
<b>Vapor/Vapour density (air=1):</b>	Not available
<b>Relative density (water = 1):</b>	2.2
<b>Solubility(ies):</b>	97% insoluble in water.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable

**SECTION 10: Stability and Reactivity**

<b>Reactivity:</b>	Stable under normal anticipated conditions of use, but may react with incompatible materials.
<b>Chemical stability:</b>	Stable under normal anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions are not anticipated.
<b>Conditions to avoid:</b>	Avoid contact with incompatible materials. No other known conditions to avoid.
<b>Incompatible materials:</b>	Hydrofluoric acid, strong acids, strong bases, and oxidizing agents.
<b>Hazardous decomposition products:</b>	Thermal decomposition may generate: irritating vapours, carbon dioxide, carbon monoxide and unidentified organic compounds.

**SECTION 11: Toxicological information**

**Information on likely routes of exposure:** Ingestion, inhalation, contact with skin and eyes.

**Symptoms related to the physical, chemical, and toxicological characteristics:** May cause eye irritation including tearing and redness. May cause skin sensitization which may result in redness, irritation and swelling. May cause mild skin irritation. Inhalation may cause dryness of the nasal passages, and lung congestion including coughing and throat irritation.

**Delayed and immediate effects and chronic effects from short or long-term exposure:**

*Skin Irritation and Corrosion:* Not anticipated to cause more than mild skin irritation based on information available on the product and the known components in the product. May cause dryness upon prolonged exposure.

*Serious Eye Damage/ Eye Irritation:* Causes eye irritation (Citronella Java Oil).

*Respiratory Sensitization:* Not anticipated to cause respiratory sensitization based on information available on the product and the known components of the product.

*Skin Sensitization:* Based upon information on a component(s) of this product, this product may cause skin sensitization upon repeated or prolonged exposure (Cinnamaldehyde, (R)-p-mentha-1,8-diene (d-limonene), and Clove Leaf Oil)

*Germ Cell Mutagenicity:* Not anticipated to cause mutagenicity based on information available on the product and the known components of the product.

*Carcinogenicity:* Not anticipated to cause cancer based on information available on the product. None of the ingredients in this product is listed as a carcinogen by ACGIH, IARC or NTP. *Diatomaceous earth, natural is not classifiable as a human carcinogen according to IARC (Group 3)*

*Reproductive Toxicity:* Not anticipated to cause reproductive toxicity based on information available on the product and the known components of the product.

*Specific Target-Organ Toxicity – Single Exposure:* May cause reversible respiratory tract irritation.

*Specific Target-Organ Toxicity – Repeated Exposure:* Prolonged or repeated inhalation of any dust may cause changes in the lung over time. As this is not believed to be a specific toxicological effect due to exposure to this product, but simply due to excessive dust exposure this product is not classified in this category. No toxic effects were observed in rats fed 5%, 3% or 1% diatomaceous earth in the diet for 90 days.

*Aspiration Hazard:* Not anticipated to be an aspiration hazard as delivered.

**Numerical measures of toxicity:**

<b>Diatomaceous earth, natural (61790-53-2)</b>	
LD50 oral rat	Not available
LD50 dermal rabbit	Not available
LC50 inhalation rat	Not available

<b>Citronella Java Oil (8000-29-1)</b>	
LD50 oral rat	7200 mg/kg
LD50 dermal rabbit	4700 mg/kg
LC50 inhalation rat	Not available

No standard animal acute toxicity data is available for the majority of this product (98-99%); however, diatomaceous earth (97% of the product) is not expected to cause acute toxicity by inhalation, dermal contact, or ingestion.

**Acute Toxicity Estimate (ATE) of the product:**

- Acute Toxicity (oral) – 7200 mg/kg
- Acute Toxicity (dermal) – 4700 mg/kg
- Acute Toxicity (inhalation) – cannot be determined

**Further information:** Not available

**SECTION 12: Ecological information**

**Ecotoxicity: Acute Ecotoxicity Data**

*Product data:* Not available

*Ingredient data:*

<b>Diatomaceous earth, natural (61790-53-2)</b>	
Not available	Diatomaceous earth products have shown some efficacy as a natural insecticide (usually acting in a physical (not a toxicological) manner on the insects) but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.

<b>Citronella (8000-29-1)</b>	
LC <sub>50</sub> (Fish – Rainbow trout, Donaldson trout) <i>(Oncorhynchus mykiss)</i>	≥13,000 ug/L/96H (static)
EC <sub>50</sub> Water flea ( <i>Daphnia magna</i> )	≥ 13,000 ug/L/48H (immobility)

**Persistence and Degradability:**

Diatomaceous earth is an inert, naturally-occurring substance made up of the skeletons of prehistoric aquatic plants (diatoms) which means it is made up of Silicon Dioxide (basically a sand-like substance). Just like sand, as a non-organic material it is not biodegradable. However, the organic portions of this product are anticipated to be fully biodegradable.

**Bioaccumulative Potential:**

Not anticipated to bioaccumulate.

**Mobility in Soil:**

The majority of this product is not mobile in soil.

**Other adverse effects:**

None known

**SECTION 13: Disposal considerations / Information on the disposal of products**

**Disposal instructions:**

*Product:* Dispose in accordance with applicable federal, state/provincial, and local regulations.

*Contaminated packaging:* Since emptied containers retain product residue, follow label warnings even after container is emptied.

#### SECTION 14: Transport Information

**Land transport DOT (US-DOT):** Not regulated  
**TDG (Transportation of Dangerous Goods) (Canada):** Not regulated  
**IATA (International Air Transport Association):** Not regulated  
**IMDG (International Maritime Dangerous Goods Code):** Not regulated

#### SECTION 15: Regulatory Information

##### Canada:

*Classification according to the Hazardous Products Regulations (WHMIS 2015):* (See Section 2) This SDS complies with the Hazardous Products Regulations (WHMIS 2015).

*Canadian Environmental Protection Act (CEPA) Domestic Substances List (DSL):* All of the known components of this product are listed on the DSL or are exempt from listing on the DSL.

*Substances Categorized in under the Categorization and Screening of the DSL (CSDSL) efforts:* Alpha-pinene (CAS# 80-56-8) has been categorized in for further screening due to its bioaccumulative potential and its inherent toxicity to aquatic organisms.

*Environment Canada's (EC) National Pollutant Release Inventory (NPRI):* Contains (R)-p-mentha-1,8-diene (CAS# 5989-27-5) and alpha-pinene (CAS# 80-56-8) which are listed on the 2014-2015 NPRI list.

*Environmental Emergencies Regulations:* No known components require an Environmental Emergency Plan (E2 Plan) under the EER.

##### Mexico:

*Classification according to NMX-R-019-SCFI-2011 harmonized system of classification and hazard communication of chemicals and NOM-018-STPS-2014, Harmonized System for the Identification and Communication of Hazards and Risks of Hazardous Chemicals in the Workplace:* See section 2.

##### USA:

*Classification according to the OSHA Hazard Communication Standard (HCS) 2012:* See Section 2. This Safety Data Sheet complies with the OSHA Hazcom 2012 requirements.

*TSCA Inventory:* All applicable components of this product are listed on the TSCA Inventory or are exempt from listing on the TSCA Inventory.

*Superfund or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):* No known components are listed.

*Emergency Planning and Community Right to Know Act (EPCRA) 302 (SARA 302):* No known components are listed.

*SARA 313 – Toxic Release Inventory (TRI):* No known components are listed on the TRI.

*California Proposition 65:* Not known to contain any components known to the state of California to cause Cancer, Reproductive Toxicity or Developmental Toxicity.

*New Jersey Right To Know (NJ-RTK):* The following known components of this product are present on the NJ-RTK list: alpha-pinene (CAS# 80-56-8), benzyl acetate (CAS#140-11-4), Diatomaceous earth (natural) (CAS# 61790-53-2 or 7631-86-9).

#### SECTION 16: Other Information / Other information on the preparation and revision of safety data sheets

Revision Date: June 30, 2016

**Acronyms used in this SDS:**

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
EC50	Effective Concentration, 50%
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration (US)
NFPA	National Fire Protection Association (US)
NIOSH	National Institute for Occupational Safety and Health (US)
GHS-CA	Globally Harmonized System - Canada
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
US DOT	United States Department of Transport

**Disclaimer:**

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