

SECTION 1: Identification of the substance/mixture and of the company/undertaking

<u>Product identifier on label</u>	VerdeLNX GRN PHOS
<u>Use</u>	Fertilizer
<u>Supplier or Manufacturer</u>	Aquatrols Corporation of America 1273 Imperial Way Paulsboro, NJ 08066 Phone number: 1-856-537-6003 info@aquatrols.com
<u>Emergency telephone</u>	FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification**GHS Classification in accordance with 29 CFR 1910.1200**

H315 Causes skin irritation, Category 2
H319 Causes serious eye damage/eye irritation, Category 2A

**Pictogram****Signal Word (OSHA)**

Danger

Hazard Statements

H402 Harmful to aquatic life.
H315 Causes skin irritation.
H319 Causes serious eye damage/eye irritation.
H331 Toxic if inhaled
H302 Harmful if swallowed
H303 May be harmful if swallowed.
H313 May be harmful if in contact with skin

Precautionary Statements

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves, eye and face protection.
P271 Use only outdoors or in well-ventilated area.
P270 Do not eat, drink or smoke when using this product.
P302+P352 IF ON SKIN: wash with plenty of water.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a poison center/doctor.
P332+P317 If skin irritation occurs: get medical help.
P362 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P317 If eye irritation persists: get medical help.
P501 Dispose of contents/container according to local regulations.

SECTION 3: Product Composition

Hazardous Components:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Available phosphate derived from phosphoric acid	7664-38-2	< 20.0%
Alkylpolyglucoside	68515-73-1	< 1.0%

The remaining composition of this blend contains non-hazardous components.

SECTION 4: First aid measures

General advice: Request medical assistance immediately, showing the SDS of this product. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

First Aid Response:

Inhalation: This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

Ingestion: Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

Skin contact: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

Eye Contact: Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

Most important symptoms and effects, both acute and delayed: Acute and delayed effects indicated in sections 2 and 11.

SECTION 5: Firefighting measures

Suitable extinguishing media: Polyvalent powder extinguishers. Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media: High pressure water jet.

Specific hazards arising from the product: During fire, gases hazardous to health may be formed. Prevent human exposure to fire, smoke, fumes or products of combustion.

Special advice/equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA). Do not inhale combustion gases.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Use standard safe work procedures, including the use of protective gloves and eye protection. Do not eat, drink or smoke when handling this product. Wash hands thoroughly after use. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Isolate leaks provided that there is no additional risk for those performing this task. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Emergency Procedures

Unprotected persons must be kept away. Always wear proper PPE when handling or cleaning.

Environmental precautions

Avoid at all costs discharge into drains, water courses, onto the ground or into any aqueous medium. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers or drains inform respective authorities.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

SECTION 7: Handling and storage

Advice on safe handling

Use standard safe work procedures, including the use of protective gloves and eye protection. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not eat, drink, or smoke when handling this product. Wash hands thoroughly after use. If clothing is contaminated, wash it before reuse. Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges. Consult section 10 for information on conditions and materials that should be avoided. Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

Conditions for safe storage

Store in a cool, dry, well-ventilated location. Avoid sources of heat, radiation, static electricity and contact with food. Keep container closed when not in use.

SECTION 8: Exposure controls/personal protection

Substances whose occupational exposure limits have to be monitored in the workplace:

Identification	CAS#	OSHA 8h TWA PEL	ACGIH TLV-TWA	ACGIH TLV-STEL	CA PEL	CA STEL
Phosphoric acid	7664-38-2	1 mg/m3	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3

Engineering controls: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Only handle in well-ventilated areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protection: Wear protective safety glasses, lab coat or apron and gloves when handling.

Respiratory protection: Only use or handle in areas of sufficient ventilation. The use of protective equipment will be necessary if the occupational exposure limits are exceeded.

Ventilation: Use with adequate ventilation.

Protective gloves: Wear appropriate chemical resistant gloves, preferably non-disposable chemical protective gloves.

Eye protection: Wear face shield when handling. Do not wear contact lenses.

Other protective clothing: Complete body protection strongly recommended. Wear appropriate chemical resistant clothing and closed-toe shoes to prevent contact with product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Dispose of heavily soiled clothing. Periodically clean external PPE according to the manufacturer's instructions. Replace safety shoes/boots at any sign of deterioration.

SECTION 9: Physical and chemical properties

Appearance	Amber liquid
Odor	Slightly sweet
pH (5% in DI water)	0.8-1.2
Melting point/freezing point (C)	Not measured
Initial boiling point and boiling range (C)	Not measured
Specific Gravity	1.14-1.16
Density (lb/gal)	9.50-9.65
Decomposition temperature (C)	Not measured
Viscosity (cps)	<200 cps

Other information

No other relevant information.

SECTION 10: Stability and reactivity

Reactivity	No hazardous reactions are expected because the product is stable and non-reactive under normal conditions of storage, use and transport.
Chemical stability	Product is chemically stable under the indicated conditions of storage, use and transport.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatibility (materials to avoid)	Incompatible with oxidizing materials, alkalis or strong bases.
Hazardous decomposition products	Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide, carbon monoxide and other organic compounds.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.

SECTION 11: Toxicological information

Specific toxicology information on the substances:

Phosphoric acid:	LD50 oral 3500 mg/kg (rat) LD50 dermal 2470 mg/kg (rabbit) LC50 inhalation non-applicable
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In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

Ingestion (acute toxicity): This product contains substances classified as dangerous for consumption; **corrosivity/irritability:** Corrosive product, if it is swallowed causes burns destroying the tissues.

Inhalation (acute toxicity): This product contains substances classified as hazardous for inhalation; **corrosivity/irritability:** Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

Contact with skin: If skin contact occurs, likely it will result in burns.

Contact with eyes: Results in serious eye damage after contact.

Carcinogenicity, mutagenicity and reproductive toxicity: Classification criteria not met.

Sensitization, skin & respiratory: Classification criteria not met.

STOT single or repeated exposure: Classification criteria not met.

Aspiration hazard: Classification criteria not met.

SECTION 12: Ecological information

Ecotoxicity

Avoid release to water sources. May be harmful to aquatic life. Not classified as environmentally hazardous, but this does not exclude the possibility that large or frequent spills can have a damaging effect on the environment.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Aquatic toxicity

No data available

Other adverse effects/information:

Avoid release to the environment.

SECTION 13: Disposal considerations

Safe handling: Wash hands thoroughly after handling. Contaminated clothing to be disposed of or decontaminated before re-use.

Disposal methods: Dispose of product and container in accordance with federal, state, and local regulations. Do not allow product to enter water sources.

SECTION 14: Transport information

US DOT UN1760, PHOSPHORIC ACID SOLUTION, 8, PG III

SECTION 15: Regulatory information

HMIS Hazard Rating

Health	2
Flammability	0
Reactivity	0

NFPA Hazard Ratings

Health	2
Flammability	0
Reactivity	0

SECTION 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

SAFETY DATA SHEET

VerdeLNX GRN PHOS



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