

SAFETY DATA SHEET

Section 1 - Identification of the substance/mixture and of the supplier

Trade Name: Prudent Green

Product Code: PrudGreen

Chemical Name: 9-0-0

Application/Uses: Fertilizing Compound

Restrictions: None

Distributor Information: **PERFORMANCE NUTRITION** - A Division of LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730
Phone: (732) 888 8000 • Fax: (732) 264 2751 • email: info@lidochem.com

Emergency Phone Number: **CHEMTREC - Day or Night - at 800 424 9300**

Section 2 - Hazard Identification

Classification of the substance or mixture (GHS-US)

Carcinogenicity 2
Acute inhalation toxicity 4
Acute oral toxicity 4, Acute dermal toxicity 4
Skin Corrosion/Irritation 2
Serious eye damage/irritation 2B
STOT SE 3 (irritating to respiratory system)

Physical Hazards

None

Hazard Statements

H302: Harmful if swallowed
H312: Harmful in contact with skin
H315: Causes skin irritation
H320: Causes eye irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer

GHS Label elements

Hazard Pictograms



Signal Word

Warning

HNOC - Hazards Not Otherwise Classified

None

Precautionary Statements:

Precautionary Statements - Prevention, Response, Storage, Disposal

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing fume/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 + P330: IF SWALLOWED: Call a poison control center or doctor/physician if you feel unwell. Rinse mouth.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

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Section 3 - Composition/Information on Ingredients

Chemical Identity: 9% N

CAS#:	Common Name/Synonyms:	% by Wt.	CAS#:	Common Name/Synonyms:	% by Wt.
13598-36-2	Phosphorus acid crystal	20-22%			
141-43-5	Monoethanolamine	18-20%			
51503-61-8	Ammonium phosphite	4.5-5.0%			
1317-80-2	Titanium (IV) oxide	14-14.5%			
1314-13-2	Zinc oxide	4-4.5%			

Section 4 - First Aid Measures

Description of first aid measures

General Advice:

Remove contaminated clothing and shoes. Seek medical advice immediately and show safety data sheet or label to the doctor, if possible.

If Inhaled:

Remove person from contaminated area to fresh air. If not breathing, give artificial respiration. Seek medical attention if irritation or dizziness occurs.

In Case Of Skin Contact:

Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

In Case Of Eye Contact:

Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

If Swallowed:

Seek medical attention or call a poison control center immediately. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in section 2. Further symptoms are possible.

Indication of any immediate medical attention and special treatment needed:

No additional information available.

Section 5 - Fire-fighting Measures

Extinguishing media:

Suitable extinguishing media: water, dry powder, carbon dioxide, foam.

Specific Hazards arising from the substance or mixture:

Oxides of phosphorus, titanium oxides

Advice for firefighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures:

As outlined in section 8, wear appropriate respiratory protection. Avoid breathing fume, vapours, spray, mist or gas. Use personal protective clothing. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:

Do not allow spilled product to enter water supplies.

Methods and materials for containment and cleaning up:

Spills should be contained by diking area with sand or soil. Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back into the original container.

Section 7- Handling and Storage

Precautions for safe handling:

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling. Provide adequate ventilation. Protect packages against physical damage. Reseal containers immediately after use. Immediately remove and dispose of any spilled material.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well ventilated area. AVOID FREEZING.

Section 8 - Exposure Control / Personal Protection

Control parameters:

Chemical Identity:	CAS #:	ACGIH Threshold Limit Values		OSHA PEL		NIOSH REL	
		TWA	STEL	TWA	STEL	TWA	STEL
Phosphorus acid crystal	13598-36-2	NDA	NDA	NDA	NDA	NDA	NDA
Monoethanolamine	141-43-5	2 mg/m ³	6 mg/m ³	6 mg/m ³	15 mg/m ³	8 mg/m ³	15 mg/m ³
Ammonium phosphite	51503-61-8	NDA	NDA	NDA	NDA	NDA	NDA
Titanium (IV) oxide	1317-80-2	NDA	NDA	NDA	NDA	NDA	NDA
Zinc oxide	1314-13-2	2 mg/m ³	10 mg/m ³	5-15 mg/m ³	10 mg/m ³	5 mg/m ³	10 mg/m ³

Appropriate engineering controls:

Provide sufficient ventilation to maintain airborne concentrations below the recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Individual protection measures, such as personal protective equipment:

Eye protection:

Tightly fitting safety goggles or face shield if a splashing hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Skin protection:

Handle with chemical resistant protective gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

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Section 8 - Exposure Control / Personal Protection (cont.)

Body protection:

Body protection must be chosen depending on activity and possible exposure, i.e. apron, chemical resistant footwear plus socks, long sleeved shirt, long pants, chemical protection suit.

Respiratory protection:

Respiratory protection is not typically required if airborne concentrations are maintained below the established exposure limits. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. Observe OSHA regulations for respirator use (29 CFR 1910.134)

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Employees should wash their hands and face before eating, drinking or using tobacco products.

Section 9 - Physical and Chemical Properties

Appearance (physical state, color, etc):	Green Liquid
Odor:	None
Odor threshold:	None
pH:	7.0 +/- 0.3
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	infinite in water and alcohol
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Specific gravity:	1.47

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Section 10 - Stability and Reactivity

Reactivity:

No data available.

Chemical stability:

Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of hazardous reactions:

No data available.

Conditions to avoid (i.e. static discharge, shock or vibration):

No data available.

Incompatible materials:

Bases, oxidizing and reducing agents, metals.

Hazardous decomposition products:

Phosphorus oxides, nitrogen oxides.

Section 11- Toxicological Information

Likely routes of exposure:

Inhalation, ingestion, skin and eye contact.

Symptoms related to physical, chemical and toxicological characteristics and delayed and immediate effects and chronic effects from short and long term exposure:**Acute Toxicity:**

Acute oral - Ethanolamine: Estimated LD50 = 1,515 mg/kg. Phosphorus acid: Estimated LD50 = 1,560 mg/kg. **Acute Oral** - Zinc oxide: Estimated LD50 = 7,950 mg/kg **Acute inhalation** - Ethanolamine: Estimated LC50 = >1.3 mg/l. **Acute dermal** - Ethanolamine: Estimated LD50 = 2,504 mg/kg.

Skin corrosion/irritation:

Immediate contact may cause irritation. Repeated exposure may lead to itch, rash, dermatitis or other reaction.

Serious eye damage/eye irritation:

May cause eye irritation, including redness and inflammation based on component data.

Respiratory or skin sensitization:

No data available.

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

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IARC: Group 2B: Possibly carcinogenic to humans (Titanium (IV) oxide).

Section 11- Toxicological Information (cont.)

Germ cell mutagenicity

No data available on the mixture.

Zinc oxide: Hamster embryo - unscheduled DNA synthesis, morphological transformation, sister chromatid exchange.

Reproductive toxicity:

No data available.

Specific target organ toxicity - single or repeated exposure:

No data available on the mixture.

Ethanolamine: After repeated exposure, the prominent effect is local irritation. The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies.

Aspiration hazard:

No data available.

Symptoms after inhalation:

Harmful if inhaled. Can cause irritation of the upper respiratory tract with potential effects on the central nervous system.

Symptoms after skin contact:

May cause skin irritation.

Symptoms after eye contact:

May cause eye irritation including redness and inflammation.

Symptoms after ingestion:

Harmful if swallowed. Ingestion could have negative effects on the kidneys and liver.

Section 12- Ecological Information

Ecotoxicity (aquatic and terrestrial, where available):**Toxicity to fish (acute and chronic):**

No data available for the mixture. Individual component data reported.

Ethanolamine:

LC50: 349 mg/l, exposure time: 96 h, species: *Cyprinus carpio* (Carp), test type: semi-static test. Literature data.

Chronic: NOEC: 1.2 mg/l, exposure time: 30 d, species: *Oryzias latipes* (orange-red killifish), method: OECD test guideline 210. Literature data.

Zinc oxide: LC50: 1.1 mg/l/m exposure time: 96 h, species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (acute and chronic):

No data available for the mixture. Individual component data reported.

Ethanolamine:

EC50: 65 mg/l, exposure time: 48 h, species: *Daphnia magna* (water flea), test type: static test, method: 84/449/EEC C.2, Literature data.

Chronic: NOEC: 0.85 mg/l, exposure time: 21 d, species: *Daphnia magna* (water flea), method: OECD test guideline 211. Literature data.

Zinc oxide: EC50: 0.098 mg/l/m exposure time: 48 h, species: *Daphnia magna* (Water flea)

Toxicity to algae:

No data available for the mixture. Individual component data reported.

Ethanolamine: ErC50: 2.5 mg/l, exposure time: 72 h, species: *Pseudokirchneriella subcapitata* (green algae, test type: OECD test guideline 201.

Literature data. **Phosphorus acid:** static test EC50: 153 mg/l, exposure time: 72 h, species: *Pseudokirchneriella subcapitata* (green algae, test type: OECD test guideline 201.

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Section 12- Ecological Information (cont.)

Persistence and degradability:

No data available for the mixture.

Ethanolamine: readily biodegradable. Method OECD test guideline 301 E

Bioaccumulative potential:

No data available.

Mobility in the soil:

No data available.

Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Zinc oxide is very toxic to aquatic life.

Section 13 - Disposal Considerations

Waste treatment methods - product:

Dispose in accordance with all local, state and federal regulations. In unused condition, this product is not considered to be a RCRA defined hazardous waste by character/listings. It is the responsibility of the waster generator to evaluate whether this wastes are hazardous by characteristic/listing.

Waste treatment methods - container:

Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

Section 14 - Transport Information - US DOT, IATA, IMO, ADR:

Proper Shipping Name:	Fertilizing Compound, NOI, Liquid - Prudent Green		
D. O. T. Hazard Class:	Not regulated by D.O.T.	UN #:	N/A
Label Requirement:	None	RQ:	N/Ap
Placard:	None	CAS:	Mixture
Packing Group:	N/A	ERG Book Information:	154
Environment Hazards:	No	Marine Pollutant:	N/Ap
Special Precautions:	N/Ap	IATA:	N/Ap

Section 15 - Regulatory Information

U.S. Federal - OSHA Status:

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

TSCA Status:

Not Listed/Non-reportable

SARA Title III Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

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This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

Section 15 - Regulatory Information (cont.)

SARA Title III Sections 311/312:

Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS#	Chemical Name:
	This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

None

Other Federal Reporting Requirements:

- CAA:** This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act
- CWA:** No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.
- RCRA:** Not considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
141-43-5	CT, MA, MN, NJ,	Monoethanolamine
13598-36-2	NJ	Phosphorus acid crystal
1317-80-2	NJ, PA	Titanium (IV) oxide

CALIFORNIA PROPOSITION 65:

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

Canada CEPA: All intentional ingredients listed on the DSL

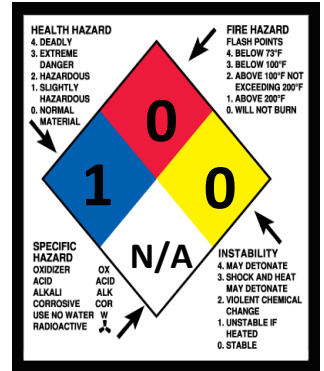
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Canada WHMIS: No Information Found

Section 16 - Other Information

Note Section 3: Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Note Section 10: Should freezing occur, product will thin out if moved to warmer conditions and can be used as normal.



Date of last revision:
1/13/2016

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Safety Data Sheet available to your employees.

Key Legend Information:

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI:	American Conference of Gov'rntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act		
RCRA:	Resource Conservation Recovery Act		
IATA:	International Air Transport Association Shipping Info.	IMO:	International Maritime Organization Shipping Info.

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