

1. Product and Company Identification

Product Code: Z-GHPGA
Product Name: GOLDEN HARVEST PLUS GA 5-18-2
Trade Name: GOLDEN HARVEST PLUS GA; GOLDEN HARVEST PLUS GA 5-18-2
Company Name: Stoller **Phone Number:**
 9090 Katy Freeway 1 (713)461-1493
 Suite 400
 Houston, TX 77024

Web site address: www.stollerusa.com
Email address: stoller@stollerusa.com
Emergency Contact: CHEMTREC, In the US and Canada call 1 (800)424-9300
 CHEMTREC, From other countries call +1 (703)527-3887

Information: 1 (800)539-5283
Synonyms: Phosphoric acid solution; NPK fertilizer solution.

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B
Acute Toxicity: Skin, Category 5
Acute Toxicity: Inhalation, Category 5
Specific Target Organ Toxicity (single exposure), Category 3
Acute Toxicity: Oral, Category 5
Specific Target Organ Toxicity (repeated exposure), Category 2
Aquatic Toxicity (Acute), Category 3
Skin Corrosion/Irritation, Category 1C



GHS Signal Word: **Danger**

GHS Hazard Phrases: H303 - May be harmful if swallowed.
 H313 - May be harmful in contact with skin.
 H314 - Causes severe skin burns and eye damage.
 H320 - Causes eye irritation.
 H333 - May be harmful if inhaled.
 H335 - May cause respiratory irritation.
 H402 - Harmful to aquatic life.

GHS Precaution Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - 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 or doctor/physician.
 P314 - Get medical attention/advice if you feel unwell.
 P337+313 - If eye irritation persists, get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:	P405 - Store locked up. P501 - Dispose of contents/container to permitted waste facility.
Potential Health Effects (Acute and Chronic):	Chronic: Severe exposure can cause permanent skin and eye burns and liver damage, even death.
Inhalation:	May be harmful if inhaled. Skin: May be harmful if absorbed through skin. Causes skin irritation. Prolonged exposure to vapors may cause sore throat and severe irritation of respiratory tract.
Skin Contact:	May cause discomfort, skin irritation or rash, even burns unless treated promptly.
Eye Contact:	May cause severe irritation, blurred vision, eye tissue damage.
Ingestion:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	RTECS #
7664-38-2	Phosphoric acid	<30.0 %	TB6300000
57-13-6	Urea	<11.0 %	YR6250000
7447-40-7	Potassium chloride	< 3.5 %	TS8050000
7705-08-0	Ferric chloride	< 3.0 %	LJ9100000
7646-85-7	Zinc chloride	< 3.0 %	ZH1400000

4. First Aid Measures

Emergency and First Aid Procedures:	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and SDS of product to health professional.
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician. Get medical aid if cough or other symptoms appear. Move patient to fresh air. Assure mucous does not obstruct airway. Supplemental oxygen may be needed. Seek medical attention if victim's breathing is difficult.
In Case of Skin Contact:	Wipe off product and immediately wash affected area with abundant soap and water. Remove contaminated clothing taking care not to impregnate eyes. Seek medical attention if irritation occurs.
In Case of Eye Contact:	Holding eyelids apart, immediately flush eyes with running water for at least 15 minutes. Seek medical attention.
In Case of Ingestion:	Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water. DO NOT INDUCE VOMITING. Never give anything by mouth to someone who is unconscious, having convulsions, or unable to swallow.
Signs and Symptoms Of Exposure:	Vomiting, Diarrhea. Dermatitis.
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	N.A.
Explosive Limits:	LEL: N.A. UEL: N.A.
Autoignition Pt:	N.A.
Suitable Extinguishing Media:	Use all means adequate to fight surrounding fire: water, foam, CO2, dry chemicals, etc.
Fire Fighting Instructions:	It is recommended that firefighters wear self-contained breathing apparatus and full protective equipment, like chemical resistant clothing.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	In case of a large spill, clear and isolate the affected area and protect people. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and boots, goggles or full face-shield and coveralls or long sleeved shirt and pants.
Steps To Be Taken In Case Material Is Released Or Spilled:	It is necessary to contain the spill into the smallest area possible by diking, scooping, etc., and recover liquid into an appropriate container for salvage or later use. Neutralize residues with lime, then absorb onto dry carrier such as dirt, vermiculite or other absorbent material, put in covered, labeled containers and dispose of as a dry waste in accordance with Federal, State and Local hazardous waste disposal regulations.

7. Handling and Storage

Precautions To Be Taken in Handling:	All personnel who handle this material should be trained to work with it safely. Avoid breathing vapors or mist; use in well-ventilated location. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers. Do not rinse containers and reuse for other purposes.
Precautions To Be Taken in Storing:	Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed, and clothing materials. Whenever possible, place chemicals on secondary containers or diked area. Keep containers tightly closed when not in use. Keep away from children and pets.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid	PEL: 1 mg/m ³ STEL: 3 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data.
57-13-6	Urea	No data.	TLV: 10 mg/m ³	No data.
7447-40-7	Potassium chloride	No data.	TLV: 10 mg/m ³	No data.
7705-08-0	Ferric chloride	No data.	TLV: 1 mg/m ³ as Zinc	No data.
7646-85-7	Zinc chloride	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 2 mg/m ³	No data.

Respiratory Equipment (Specify Type):	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye Protection:	Safety glasses should be worn in any type of operation with chemicals.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Protective gloves, long sleeved shirt and long pants, as well as protective shoes should be worn as a good safety practice.
Engineering Controls (Ventilation etc.):	General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions. An eye bath and washing facilities should be readily available.
Work/Hygienic/Maintenance Practices:	Remove all dirty or contaminated clothing and wash it before reusing. As a general rule, do not eat, drink, smoke, and/or chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Amber to brown color. Neutral or no odor.
pH:	< 1
Melting Point:	N.A.
Boiling Point:	No data.
Flash Pt:	N.A.
Evaporation Rate:	N.E.
Flammability (solid, gas):	Product is non-flammable.
Explosive Limits:	LEL: N.A. UEL: N.A.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	1.27 - 1.31
Density:	~ 10.8 LB/GA
Solubility in Water:	No data.
Saturated Vapor Concentration:	N.E.
Octanol/Water Partition Coefficient:	N.E.
Percent Volatile:	N.D.
Autoignition Pt:	N.A.
Decomposition Temperature:	N.A.
Viscosity:	N.E.
Molecular Formula & Weight:	Proprietary 0.0

10. Stability and Reactivity

Reactivity:	Reactivity in water: N.A.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High heat. Mixture with incompatible materials.
Incompatibility - Materials To Avoid:	Alkalies, oxidizing agents, metals like steel, copper or aluminum. Phosphoric acid produces a violent reaction with sodium tetrahydroborate. Exothermic reactions with alcohols, glycols, aldehydes, amines, esters, organic peroxides.
Hazardous Decomposition or Byproducts:	Toxic fumes by reaction with metals; aldehydes, cyanides, sulfides. Toxic fumes may be generated under fire conditions.

Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	<p>Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.</p> <p>Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.</p> <p>Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans.</p> <p>Reproductive Effects: The components of this product are not reported to produce toxic reproductive effects in humans. However, urea is being investigated as a reproductive effector.</p> <p>CAS# 7664-38-2: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Kidney, Ureter, Bladder:Hematuria. Skin and Appendages: Other: Hair. ; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970</p> <p>Acute toxicity, LD50, Skin, Species: Rabbit, 2740. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Excitement. ; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970</p> <p>CAS# 57-13-6: Acute toxicity, LD50, Oral, Rat, 8471. MG/KG. Result: Autonomic Nervous System: Other (direct) parasympathomimetic. Behavioral: Coma. Gastrointestinal:Hypermotility, diarrhea. ; Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986</p> <p>CAS# 7646-85-7: Acute toxicity, LD50, Oral, Rat, 350.0 MG/KG. Result: Gastrointestinal:Nausea or vomiting. Blood:Change in clotting factors. ; Food Research., For publisher information, see JFDSAZ, Champaign, IL, Vol/p/yr: 7,313, 1942</p>
Carcinogenicity/Other Information:	The components of this product are not listed as a carcinogenic by CPDB, IARC, NTP, OSHA, CAL/OSHA and ACGIH.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	<p>The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination.</p> <p>Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures." Due to its nutritional nature, may cause eutrophication if discharged in bodies of water.</p> <p>To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section 15. If the word "YES" is marked next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.</p>
Persistence and	No data available.

Degradability:
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. Disposal Considerations

Waste Disposal Method: Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
Contains Phosphoric Acid and Zinc Chloride 8, III, RQ.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1760 **Packing Group:** III



MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: CORROSIVE LIQUID, N.O.S.
(Contains Phosphoric Acid and Zinc Chloride) 8, III.
UN Number: 1760 **Packing Group:** III
Hazard Class: 8 - CORROSIVE
IMDG EMS Page: **IMDG MFAG Number:**
Marine Pollutant: Yes

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: CORROSIVE LIQUID, N.O.S.
Contains Phosphoric Acid and Zinc Chloride 8, III, RQ.

Additional Transport Information: Reportable Quantity (RQ): 5000 lb (2270 kg) for Phosphoric acid; for this solution, 16666 lb (7560 kg) = 1530 gal.

Placards / Markings: CORROSIVE

Emergency Response Guide Number: 154

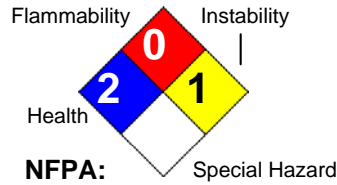
15. Regulatory Information

Regulatory Information
Statement:

16. Other Information

Revision Date: 06/01/2015

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

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