

1. Product and Company Identification

Product Code: FGAU251-254
Product Name: HARVEST PLUS
Company Name: Stoller Australia Pty Ltd
1 Creswell Road
Largs Bay
South Australia 5016
Web site address: www.stoller.com.au
Email address: stoller@stoller.com.au
Emergency Contact: STOLLER PRODUCTION CHEMIST
Contact number: 08 8169-0988
Information: 1800 337-845

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B

Acute Toxicity: Inhalation, Category 4

Acute Toxicity: Oral, Category 4



GHS Signal Word: **Warning**

GHS Hazard Phrases: H302 - Harmful if swallowed.
H320 - Causes eye irritation.
H332 - Harmful if inhaled.

GHS Precaution Phrases: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P337+313 - If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to ...

Inhalation: May be harmful if inhaled.

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: Corrosive. May cause eye burns and permanent tissue damage.

Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion: Causes corrosion, burns to mouth and esophagus, abdominal pain, chest pain, nausea,

vomiting, diarrhea, and seizures. Aspiration of the swallowed or vomited product can cause severe pulmonary complications. Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	
7664-38-2	Phosphoric acid	<25.0 %	
57-13-6	Urea	< 5.0 %	
1310-58-3	Potassium hydroxide	<45.0 %	

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: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In Case of Skin Contact: Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous does not obstruct airway. Seek medical attention if victim's breathing is difficult. Wipe off excess product and immediately wash affected area thoroughly 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 if severe irritation occurs.

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.

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 water spray, dry chemical, carbon dioxide, or chemical foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media: None known.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: Toxic gasses by reaction with metals; aldehydes, cyanides, sulfides. Phosphoric acid may produce flammable hydrogen gas by reaction with chlorides and stainless steel. Not enough data for this particular solution. Toxic fumes may be generated under fire conditions.

Hazardous Combustion Products: Produces a violent exothermic reaction with sodium tetrahydroborate.

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.

Environmental Precautions:

Do not allow to enter drains or waterways.

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. If product is clean, use it as intended, following original label directions; should it get contaminated, salvage for proper disposal as waste.

7. Handling and Storage

Precautions To Be Taken in Handling:

Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. 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:

Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. 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.

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.
1310-58-3	Potassium hydroxide	No data.	CEIL: 2 mg/m ³	No data.

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7664-38-2	Phosphoric acid	Australia	TWA: 1 mg/m ³ () STEL: 3 mg/m ³ ()	
1310-58-3	Potassium hydroxide	Australia	TWA: 2 Peak limitation () STEL: ()	

Respiratory Equipment (Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143)) dust masks.

Eye Protection:

Wear a NIOSH/OSHA approved respirator if working conditions require doing so. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers.

Other Protective Clothing: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Long-sleeved shirt, long pants and 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: Handle in accordance with good industrial hygiene and safety practice. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove all dirty or contaminated clothing and wash it before reusing, as well as any other PPE.

Environmental Exposure Controls: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Clear to light yellow color.

pH: ~ 8.5 - 9.3

Melting Point: N.A.

Boiling Point: NA

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): NA

Vapor Density (vs. Air = 1): NA

Specific Gravity (Water = 1): 1.39 - 1.41

Density: 11.6 LB / GL

Solubility in Water: No data.

Saturated Vapor Concentration: N.E.

Octanol/Water Partition Coefficient: N.E.

Autoignition Pt: N.A.

Decomposition Temperature: N.E.

Viscosity: N.E.

Molecular Formula & Weight: Proprietary 0.0

10. Stability and Reactivity

Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	High heat. Mixture with incompatible materials.
Incompatibility - Materials To Avoid:	Fluorine, strong oxidizing agents, strong reducing agents, bases, metals, sulfur trioxide, phosphorous pentoxide.
Hazardous Decomposition or Byproducts:	Oxides of phosphorus.
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
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 Toxicity: The components of this product are not reported to produce toxic reproductive effects in humans.</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. ; Gigena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986</p> <p>CAS# 1310-58-3: Acute toxicity, LD50, Oral, Rat, 273.0 MG/KG. Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Liver: Tumors. ; Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 8,97, 1987</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:

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. 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.

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: Trade Name: HARVEST PLUS

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Trade Name: HARVEST PLUS

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Trade Name: HARVEST PLUS

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Trade Name: HARVEST PLUS

15. Regulatory Information

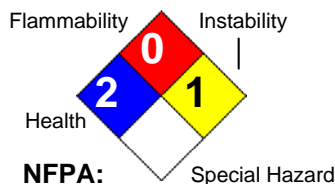
Regulatory Information Statement:

16. Other Information

Revision Date:

06/01/2015

Hazard Rating System:



Additional Information About This Product: No data available.

Company Policy or Disclaimer:

Stoller believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However, Stoller does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information

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