

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: Dual Fuel 1

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Dual Fuel 1

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Complete fertilizer to be used with Green Planet Dual Fuel 2 for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 2

Eye Irrit. 2

2.2 Label elements

Hazard pictograms:



GHS07

Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements:

P264

Wash hands and forearms thoroughly after handling.

P280

Wear protective gloves, clothing, eye protection, and face protection.

P302+P352

IF ON SKIN: Wash with plenty of 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.

P321

For specific treatment, refer to Section 4.

P332+P313

If skin irritation occurs: Get medical attention.

P337+P313

If eye irritation persists: Get medical advice.

P362+P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

Dual Fuel 1**Safety Data Sheet****2.3 Other hazards**

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Causes skin irritation.

EYE CONTACT: Causes serious eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS**3.1 Mixtures****3.1.1 Description of the mixture:**

Aqueous solution of Calcium nitrate, Potassium nitrate, FeEDTA, MnEDTA, ZnEDTA, CuEDTA, Boric Acid, Cobalt Nitrate, and Ammonium Molybdate.

3.1.2 Ingredients:

<i>Substance name</i>	<i>CAS No.</i>	<i>INDEX No.</i>	<i>EC No.</i>	<i>Concentration</i>	<i>Classification</i>
Water	7732-18-5		231-791-2	35-65%	<i>Not Classified</i>
Calcium Nitrate	10124-37-5		233-332-1	30-50%	<i>Category 2: Skin Irritation.</i> <i>Category 2: Eye Irritation.</i> <i>Category 3: Oxidizing Solid</i>
Potassium nitrate	7757-79-1		231-818-8	5-10%	<i>Category 3: Oxidizing Solid</i>
<i>Edetic Acid</i>	60-00-4		200-449-4	1-5%	<i>Category 2: Eye Irritation.</i>

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES**4.1 Description of first aid measures****4.1.1 Following inhalation:**

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Take off all contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

4.1.3. Following eye contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention.

4.1.4 Following ingestion:

If swallowed, do not induce vomiting. Rinse mouth with plenty of water. Seek medical advice immediately. Bring the container and SDS.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.



4.2.3. Eye contact:

Contact may cause serious irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Lime green

Odour: Mineral

	value	temperature	pressure
pH	4.0		Ambient
Melting point/freezing point	-8.0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.24 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: Causes skin irritation.

Assessment / Classification: Category 2 Skin Irritant

Dual Fuel 1**Safety Data Sheet****Eye damage/irritation**

Practical experience / human evidence: Causes sever eye irritation.

Assessment / Classification: Category 2 Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Calcium Nitrate</i>	44.8 ug/l	3-96 h / NA DLY	<i>Pimephales promelas</i>	Physiology – EP Response	unmeasured	163383 Dew, W.A., C.M. Wood, and G.G. Pyle, 2012
<i>Potassium nitrate</i>	5,500 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	915 Dowden, B.F., and H.J. Bennett, 1965
<i>Edetic acid</i>	167,000 ug/l	24 h	<i>Ictalurus punctatus</i>	LC50	unmeasured	934 Clemens, H.P., and K.E. Sneed, 1959



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Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
Calcium Nitrate	800,000 ug/L	10 days	<i>Gasterosteus aculeatus</i>	Mortality	unmeasured	2851 Jones, J.R.E., 1939
Potassium nitrate	300 mg/l	40 days	<i>Heteropneustes fossilis</i>	LOEC	unmeasured	115928 Srivastava, P.N., and A.S. Narain, 1985
Edetic acid	10,000 ug/l	120 day	<i>Cyprinus carpio</i>	No Effect	unmeasured	14370 Kaviraj, A., and S. Das, 1995

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Potassium nitrate	>450 - <500 mg/l	12 h	<i>Portunus pelagicus</i>	LC50	unmeasured	100646 Romano, N., and C. Zeng, 2007
Edetic Acid	122,000 ug/l	24 h	<i>Daphnia magna</i>	EC50 – ITX	unmeasured	16601 Janssen, C.R., E.Q. Espiritu, and G. Persoone, 1993

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Potassium nitrate	900 mg/l	4.2 days	<i>Daphnia magna</i>	LC50	unmeasured	915 Dowden, B.F., and H.J. Bennett, 1965
Edetic Acid	226 – 234 mg/L	48 h	<i>Daphnia magna</i>	LC50	unmeasured	117622 Sankaramanachi, S.K., and S.R. Qasim, 1999

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

No information available.

12.3 Bioaccumulative potential

Assessment / Classification:

No information available.

12.4 Mobility in soil

Assessment / Classification:

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.



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13.2 Additional information:

Irrigation return flows are not considered hazardous waste.
The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable
Special provisions: None
Tunnel restriction code: Not applicable
Classification code: Not applicable
Transport category: Not applicable
Hazard identification number (Kemler No.): Not applicable
Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable
Special provisions: None
Category: Not applicable
Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable
Special provisions: None
Marine pollutant: No
Segregation group: Not applicable
Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable
Special provisions: None
Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None
Chronic Health Hazard: None
Fire Hazard: None
Release of Pressure: None
Reactive Hazard: None



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15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.

Section 16: OTHER INFORMATION

16.1 Indication of changes

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16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.



Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: Dual Fuel 2

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Dual Fuel 2

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Complete fertilizer to be used with Green Planet Dual Fuel 1 for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 – H316

Eye Irrit. 2B –H320

2.2 Label elements

Hazard pictograms:

N/A

Signal word:

Warning

Hazard statements:

H316

Causes mild skin irritation.

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.

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2.3 Other hazards

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact can cause eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of Magnesium Sulfate, Potassium Phosphate, Potassium Sulfate.

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	30-70%	Not Classified
Magnesium Sulfate	7487-88-9		231-298-2	10-30%	Not Classified
Potassium Dihydrogenorthophosphate	7778-77-0		231-913-4	10-20%	Not Classified
Potassium Sulfate	7778-80-5		231-915-5	10-20%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Colourless

Odour: Odourless

	value	temperature	pressure
pH	3.9		Ambient
Melting point/freezing point	-5.0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.2 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 Skin Irritant

Dual Fuel 2

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Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)

STOT SE 1 and 2

Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract:

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

STOT RE 1 and 2

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

12.1.1 Aquatic toxicity

Acute (short-term) fish toxicity

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	19,000 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	<i>J. Water Pollut. Control Fed.37(9): 1308-1316</i>

Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	8,000,000 – 11,000,000 ug/L	2 E x WK 1-6 week(s)	<i>Oncorhynchus mykiss</i>	Mortality	unmeasured	<i>M.S. Thesis, University of Wyoming, Laramie, WY:59 p.</i>
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	<i>Oncorhynchus mykiss</i>	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi59(8): 1395-1400</i>



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Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Magnesium Sulfate	2,180 – 2,500 mg/L	24 h	Daphnia magna	LC50	unmeasured	Environ. Toxicol. Chem. 16(10): 2009-2019

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Magnesium Sulfate	360 mg/L	3 x WK 3 weeks	Daphnia magna	Mortality	unmeasured	Hydrobiologia 10 8:25-31
Potassium Dihydrogenphosphate	Diet: 6.14 %	27 weeks	Oncorhynchus mykiss	Mortality 32.3 %	unmeasured	Nippon Suisan Gakkaishi 59(8): 1395-1400

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code



Dual Fuel 2

Safety Data Sheet

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.



Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.0 - 19/07/2016

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: GP3 Bloom

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Bloom, Bloom 3 Part

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Complete fertilizer to be used with green planet 3 Part Grow and Micro for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 – H316

Eye Irrit. 2B –H320

2.2 Label elements

Hazard pictograms:

N/A

Signal word:

Warning

Hazard statements:

H316

Causes mild skin irritation.

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.

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2.3 Other hazards

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact can cause eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of Dipotassium Phosphate, Magnesium Sulfate, Potassium Phosphate, Potassium Sulfate.

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	50-80%	Not Classified
Magnesium Sulfate	7487-88-9		231-298-2	10-30%	Not Classified
Potassium Dihydrogenorthophosphate	7778-77-0		231-913-4	10-20%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.



Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Colourless

Odour: Odourless

	value	temperature	pressure
pH	3.9		Ambient
Melting point/freezing point	-5.0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.17 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 Skin Irritant

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Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	19,000 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	<i>J. Water Pollut. Control Fed.37(9): 1308-1316</i>

Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	8,000,000 – 11,000,000 ug/L	2 E x WK 1-6 week(s)	<i>Oncorhynchus mykiss</i>	Mortality	unmeasured	<i>M.S. Thesis, University of Wyoming, Laramie, WY:59 p.</i>
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	<i>Oncorhynchus mykiss</i>	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi59(8): 1395-1400</i>



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Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Magnesium Sulfate	2,180 – 2,500 mg/L	24 h	Daphnia magna	LC50	unmeasured	Environ. Toxicol. Chem. 16(10): 2009-2019

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Magnesium Sulfate	360 mg/L	3 x WK 3 weeks	Daphnia magna	Mortality	unmeasured	Hydrobiologia 10 8:25-31
Potassium Dihydrogenphosphate	Diet: 6.14 %	27 weeks	Oncorhynchus mykiss	Mortality 32.3 %	unmeasured	Nippon Suisan Gakkaishi 59(8): 1395-1400

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

GP3 Bloom

Safety Data Sheet

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.



Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.1 - 08/03/2016

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.



Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: GP3 Grow

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Grow, Grow 3 Part

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Complete fertilizer to be used with green planet 3 Part Bloom and Micro for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 – H316

Eye Irrit. 2B –H320

2.2 Label elements

Hazard pictograms:

N/A

Signal word:

Warning

Hazard statements:

H316

Causes mild skin irritation.

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.

GP3 Grow

Safety Data Sheet

2.3 Other hazards

REACTIVITY: Non-reactive

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact can cause eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of Potassium Sulfate, Potassium Nitrate, Monopotassium Phosphate, Dipotassium Phosphate, Magnesium Sulfate, Magnesium Nitrate, Ammonium Sulfate, Ammonium Phosphate, Copper EDTA

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	35-65%	Not Classified
Magnesium Sulfate	7487-88-9		231-298-2	5-10%	Not Classified
Ammonium dihydrogenorthophosphate	7722-76-1		231-764-5	5-10%	Not Classified
Potassium nitrate	7757-79-1		231-818-8	15-25%	Category 3: Oxidizing Solid
Magnesium Nitrate	10377-60-3		233-826-7	5-10%	Category 3: Oxidizing Solid Category 2: Eye Irritant
Potassium Sulfate	7778-80-5		231-915-5	5-10%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.



4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

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Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Light Blue

Odour: Odourless

	value	temperature	pressure
pH	4.3		Ambient
Melting point/freezing point	-5.0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.14 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 Skin Irritant



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Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	19,000 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	<i>J. Water Pollut. Control Fed.37(9): 1308-1316</i>
<i>Potassium nitrate</i>	5,500 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	<i>915 Dowden, B.F., and H.J. Bennett, 1965</i>



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Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	8,000,000 – 11,000,000 ug/L	2 E x WK 1-6 week(s)	<i>Oncorhynchus mykiss</i>	Mortality	unmeasured	<i>M.S.Thesis, University of Wyoming, Laramie, WY:59 p.</i>
<i>Potassium nitrate</i>	300 mg/l	40 days	<i>Heteropneuste s fossilis</i>	LOEC	unmeasured	115928 <i>Srivastava,P.N., and A.S. Narain, 1985</i>

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	2,180 – 2,500 mg/L	24 h	<i>Daphnia magna</i>	LC50	unmeasured	<i>Environ. Toxicol. Chem.16(10): 2009-2019</i>
<i>Potassium nitrate</i>	>450 - <500 mg/l	12 h	<i>Portunus pelagicus</i>	LC50	unmeasured	100646 <i>Romano,N., and C. Zeng, 2007</i>
<i>Magnesium nitrate</i>	32 – 320 mg/l	6 – 24 h	<i>Daphnia magna</i>	Mortality	unmeasured	45194 <i>Tomasik,P., C.H.D. Magadza, S. Mhizha, and A. Chirume, 1995</i>

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	360 mg/L	3 x WK 3 weeks	<i>Daphnia magna</i>	Mortality	unmeasured	<i>Hydrobiologia10 8:25-31</i>
<i>Potassium nitrate</i>	900 mg/l	4.2 days	<i>Daphnia magna</i>	LC50	unmeasured	915 <i>Dowden,B.F., and H.J. Bennett, 1965</i>

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.

Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.0 - 01/12/2015

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: GP3 Micro

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Micro, Micro 3 Part

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Complete fertilizer to be used with green planet 3 Part Grow and Bloom for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 2

Eye Irrit. 2

2.2 Label elements

Hazard pictograms:



GHS07

Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements:

P264

Wash hands and forearms thoroughly after handling.

P280

Wear protective gloves, clothing, eye protection, and face protection.

P302+P352

IF ON SKIN: Wash with plenty of 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.

P321

For specific treatment, refer to Section 4.

P332+P313

If skin irritation occurs: Get medical attention.

P337+P313

If eye irritation persists: Get medical advice.

P362+P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

GP3 Micro**Safety Data Sheet****2.3 Other hazards****REACTIVITY:** Not reactive.**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with skin and eyes.**ACUTE:****INHALATION:** No data available.**CONTACT WITH SKIN:** Causes skin irritation.**EYE CONTACT:** Causes serious eye irritation.**INGESTION:** Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.**Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS****3.1 Mixtures****3.1.1 Description of the mixture:**

Aqueous solution of Calcium nitrate, Potassium nitrate, FeEDTA, MnEDTA, ZnEDTA, CuEDTA, Potassium Borate, Cobalt Nitrate, and Ammonium Molybdate.

3.1.2 Ingredients:

<i>Substance name</i>	<i>CAS No.</i>	<i>INDEX No.</i>	<i>EC No.</i>	<i>Concentration</i>	<i>Classification</i>
Water	7732-18-5		231-791-2	35-65%	<i>Not Classified</i>
Calcium Nitrate	10124-37-5		233-332-1	30-50%	<i>Category 2: Skin Irritation.</i> <i>Category 2: Eye Irritation.</i> <i>Category 3: Oxidizing Solid</i>
Potassium nitrate	7757-79-1		231-818-8	5-10%	<i>Category 3: Oxidizing Solid</i>
<i>Edetic Acid</i>	60-00-4		200-449-4	1-5%	<i>Category 2: Eye Irritation.</i>

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES**4.1 Description of first aid measures****4.1.1 Following inhalation:**

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Take off all contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

4.1.3. Following eye contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention.

4.1.4 Following ingestion:

If swallowed, do not induce vomiting. Rinse mouth with plenty of water. Seek medical advice immediately. Bring the container and SDS.

4.2 Most important symptoms and effects, both acute and delayedSymptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.**4.2.1 Inhalation:**

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.



4.2.3. Eye contact:

Contact may cause serious irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Burgundy

Odour: Mineral

	value	temperature	pressure
pH	5.8		Ambient
Melting point/freezing point	-18.0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.23 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: Causes skin irritation.

Assessment / Classification: Category 2 Skin Irritant

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Eye damage/irritation

Practical experience / human evidence: Causes severe eye irritation.

Assessment / Classification: Category 2 Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Calcium Nitrate</i>	44.8 ug/l	3-96 h / NA DLY	<i>Pimephales promelas</i>	Physiology – EP Response	unmeasured	163383 Dew, W.A., C.M. Wood, and G.G. Pyle, 2012
<i>Potassium nitrate</i>	5,500 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	915 Dowden, B.F., and H.J. Bennett, 1965
<i>Edetic acid</i>	167,000 ug/l	24 h	<i>Ictalurus punctatus</i>	LC50	unmeasured	934 Clemens, H.P., and K.E. Sneed, 1959



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Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
Calcium Nitrate	800,000 ug/L	10 days	<i>Gasterosteus aculeatus</i>	Mortality	unmeasured	2851 Jones, J.R.E., 1939
Potassium nitrate	300 mg/l	40 days	<i>Heteropneustes fossilis</i>	LOEC	unmeasured	115928 Srivastava, P.N., and A.S. Narain, 1985
Edetic acid	10,000 ug/l	120 day	<i>Cyprinus carpio</i>	No Effect	unmeasured	14370 Kaviraj, A., and S. Das, 1995

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Potassium nitrate	>450 - <500 mg/l	12 h	<i>Portunus pelagicus</i>	LC50	unmeasured	100646 Romano, N., and C. Zeng, 2007
Edetic Acid	122,000 ug/l	24 h	<i>Daphnia magna</i>	EC50 – ITX	unmeasured	16601 Janssen, C.R., E.Q. Espiritu, and G. Persoone, 1993

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Potassium nitrate	900 mg/l	4.2 days	<i>Daphnia magna</i>	LC50	unmeasured	915 Dowden, B.F., and H.J. Bennett, 1965
Edetic Acid	226 – 234 mg/L	48 h	<i>Daphnia magna</i>	LC50	unmeasured	117622 Sankaramanachi, S.K., and S.R. Qasim, 1999

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

No information available.

12.3 Bioaccumulative potential

Assessment / Classification:

No information available.

12.4 Mobility in soil

Assessment / Classification:

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.



GP3 Micro

Safety Data Sheet

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.
The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable
Special provisions: None
Tunnel restriction code: Not applicable
Classification code: Not applicable
Transport category: Not applicable
Hazard identification number (Kemler No.): Not applicable
Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable
Special provisions: None
Category: Not applicable
Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable
Special provisions: None
Marine pollutant: No
Segregation group: Not applicable
Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable
Special provisions: None
Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None
Chronic Health Hazard: None
Fire Hazard: None
Release of Pressure: None
Reactive Hazard: None



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Safety Data Sheet

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.

Section 16: OTHER INFORMATION

16.1 Indication of changes

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16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.



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Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

- 1.1 Product identifier: MASSIVE**
- 1.1.1 Mixtures**
- 1.1.2 Other means of identification: Green Planet Massive Bloom Booster**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Relevant identified uses:**
Specialty fertilizer desinged to be used as a bloom booster to enhance the quality of flowers and improve yield in soil, soilless, coco coir, hydroponic or any other growing media application.
- 1.2.2 Uses advised against:**
N/A
- 1.3 Details of the supplier of the safety data sheet:**
Supplier:
WHOLESALE HORTICULTURAL GROUP Pty Ltd
3 Legacy Rd
EPPING VIC 3076
Australia
Tel: +61 3 9335 3310 Fax: +61 3 9335 3309
E-Mail : info@whg.net.au
- 1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755**

Section 2: HAZARD IDENTIFICATION

- 2.1. Classification of the substance or mixture:**

Classification

Skin Irrit. 3 - H316

Eye Irrit. 2B - H320

- 2.2 Label elements**
Hazard pictograms: N/A

Signal word:
Warning

Hazard statements:

H316

Causes mild skin irritation

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.



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2.3 Other hazards

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes.

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact can cause eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of monoammonium phosphate, potassium nitrate, magnesium sulfate, monopotassium phosphate.

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	60-80%	Not Classified
Ammonium dihydrogenorthophosphate	7722-76-1		231-764-5	5-10%	Not Classified
Potassium nitrate	7757-79-1		231-818-8	5-10%	Category 3: Oxidizing Solid
Magnesium Sulfate	7487-88-9		231-298-2	5-10%	Not Classified
Potassium dihydrogenorthophosphate	7778-77-0		231-913-4	5-10%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention if allergic response exhibited.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Give large quantities of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritation to eyes and skin.



Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Oxides of carbon, oxides of nitrogen.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution. Removal by mechanical means (i.e. vacuuming with HEPA filters) preferred. Solids may be placed into appropriate containers for disposal.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Sweep or vacuum (equipped with a HEPA filter) the liquid and dispose in accordance with local waste disposal regulations. Removal by mechanical means (i.e. vacuuming with HEPA filters) preferred. Solids may be placed into appropriate containers for disposal. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

6.4 Reference to other sections:

See "Section 8" for a complete list of protective equipment.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits:

No national limit values established for monoammonium phosphate, potassium nitrate, magnesium sulfate or monopotassium phosphate.

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Occupational exposure limit value		Monitoring and observation processes	Peak limitation	Source
				Long term	Short term			

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Safety goggles or safety glasses.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Amber to Light Brown

Odour: Vanilla/Molasses

	value	temperature	pressure
pH	4.5		Ambient
Melting point/freezing point	-4.0 °C		Ambient
Initial boiling point/boiling range	100 °C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Applicable
Vapour density			Not Applicable
Relative density	1.09 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.



Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 – Skin Irritant.

Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B – Eye Irritant.

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenic, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)

STOT SE 1 and 2

Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract:

Based on available data, the classification criteria are not met.

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

STOT RE 1 and 2

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

12.1.1 Aquatic toxicity

Acute (short-term) fish toxicity

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	19,000 mg/l	24 h	<i>Lepomis macrochirus</i>	LC50	unmeasured	<i>J. Water Pollut. Control Fed.37(9): 1308-1316</i>

Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	8,000,000 – 11,000,000 ug/L	2 E x WK 1-6 week(s)	<i>Oncorhynchus mykiss</i>	Mortality	unmeasured	<i>M.S.Thesis, University of Wyoming, Laramie, WY:59 p.</i>
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	<i>Oncorhynchus mykiss</i>	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi59(8): 1395-1400</i>

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	2,180 – 2,500 mg/L	24 h	<i>Daphnia magna</i>	LC50	unmeasured	<i>Environ. Toxicol. Chem.16(10): 2009-2019</i>

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Magnesium Sulfate</i>	360 mg/L	3 x WK 3 weeks	<i>Daphnia magna</i>	Mortality	unmeasured	<i>Hydrobiologia10 8:25-31</i>
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	<i>Oncorhynchus mykiss</i>	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi59(8): 1395-1400</i>

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.



Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good



Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Not classified as hazardous.

15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment is not required.

Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.1 - 14/01/2016

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.



Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: PK Spike

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet PK Spike, Spike

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Phosphorus and potassium additive designed to be used as a bloom booster to enhance the quality of flowers and improve yield in soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 – H316

Eye Irrit. 2B –H320

2.2 Label elements

Hazard pictograms:

N/A

Signal word:

Warning

Hazard statements:

H316

Causes mild skin irritation.

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.

2.3 Other hazards

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

PK Spike**Safety Data Sheet****ACUTE:****INHALATION:** No data available.**CONTACT WITH SKIN:** Exposure may cause mild skin irritation.**EYE CONTACT:** Contact can cause eye irritation.**INGESTION:** Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.**Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS****3.1 Mixtures****3.1.1 Description of the mixture:**

Aqueous solution of potassium phosphate, potassium acetate, potassium citrate, potassium metaphosphate.

3.1.2 Ingredients:

<i>Substance name</i>	CAS No.	INDEX No.	EC No.	Concentration	Classification
Potassium dihydrogenorthophosphate	7778-77-0		231-913-4	50%	Not Classified
Potassium acetate	127-08-2		204-822-2	10%	Not Classified
Tripotassium citrate	866-84-2		212-755-5	10%	Not Classified
Potassium metaphosphate	7790-53-6		232-212-6	10%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES**4.1 Description of first aid measures****4.1.1 Following inhalation:**

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayedSymptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.**4.2.1 Inhalation:**

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.



Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Transparent

Odour: Odourless

	value	temperature	pressure
pH	7.6		Ambient
Melting point/freezing point	-10°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.3 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 Skin Irritant

PK Spike**Safety Data Sheet****Eye damage/irritation**

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Chronic (long-term) fish toxicity**

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	Oncorhynchus mykiss	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi</i> 59(8): 1395-1400

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Potassium Dihydrogenphosphate</i>	Diet: 6.14 %	27 weeks	Oncorhynchus mykiss	Mortality 32.3 %	unmeasured	<i>Nippon Suisan Gakkaishi</i> 59(8): 1395-1400



PK Spike

Safety Data Sheet

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.			Non dangerous good	
14.2 UN Proper shipping name			Not applicable	
14.3 Transport hazard class(es)			Not applicable	
Hazard label(s)			Not applicable	
14.4 Packing group			Not applicable	
14.5 Environmental hazards			Not applicable	

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good



- | | |
|--------|---|
| 14.8.4 | Sea transport (IMDG)
Limited quantity: Not applicable
Special provisions: None
Marine pollutant: No
Segregation group: Not applicable
Remark: Non dangerous good |
| 14.8.5 | Air transport (ICAO-TI / IATA-DGR)
Limited quantity: Not applicable
Special provisions: None
Remark: Non dangerous good |

Section 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture**
- 15.1.1 US Federal**
SARA Title III Rules
Section 313 Toxic Chemicals
 This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.
Section 311/312 Hazard Classes
 Acute Health Hazard: None
 Chronic Health Hazard: None
 Fire Hazard: None
 Release of Pressure: None
 Reactive Hazard: None
- 15.1.2 US State Regulations**
California Proposition 65
 This product does not contain any Proposition 65 chemicals
- 15.1.3 Canada**
WHIMIS Classification
 Not classified
 This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.
- 15.1.4 European Union**
Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]
 No additional information available.
- 15.2 Chemical Safety Assessment:**
 No additional information available.

Section 16: OTHER INFORMATION

- 16.1 Indication of changes**
Version No.: 1.0 - 07/04/2017
- 16.2 Disclaimer:**
 The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: Plant Guard

1.1.1 Mixture

1.1.2 Other means of identification: Potassium Silicate

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Potassium silicate specialty fertilizer formulated for use in: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 2

Eye Irrit. 2

2.2 Label elements

Hazard pictograms:



GHS07

Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements:

P262

Do not get in eyes, on skin, or on clothing.

P280

Wear protective gloves, clothing, eye protection, and face protection.

P303+P353+P361

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Plant Guard**Safety Data Sheet****2.3 Other hazards**

REACTIVITY: Dries to form glass film, which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Causes skin irritation.

EYE CONTACT: Causes serious eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS**3.1 Mixtures****3.1.1 Description of the mixture:**

Potassium Silicate

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	75%	Not Classified
Silicic acid, potassium salt, potassium silicate	7732-18-5		215-199-1	10-30%	Category 2: Skin Irritation. Category 1: Eye Damage. Category 3: STOT SE

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES**4.1 Description of first aid measures****4.1.1 Following inhalation:**

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Take off all contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

4.1.3. Following eye contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention.

4.1.4 Following ingestion:

If swallowed, do not induce vomiting. Rinse mouth with plenty of water. Seek medical advice immediately. Bring the container and SDS.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause serious irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.



Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
UK EH40	Silicic acid, potassium salt		2 mg/m ³	215-199-1	7732-18-5		15 min	EH40

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Colorless

Odour: Odourless

	value	temperature	pressure
pH	12.0		Ambient
Melting point/freezing point	0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.04 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: Causes skin irritation.

Assessment / Classification: Category 2 Skin Irritant

Plant Guard

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Eye damage/irritation

Practical experience / human evidence: Causes serious eye irritation.

Assessment / Classification: Category 2 Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION**12.1 Toxicity:****12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Silicic acid, sodium salt</i>	256 mg/l	24 h NR	<i>Rainbow Trout</i>	Mortality	unmeasured	20590 Department of Scientific and Industrial Research, 1953

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Silicic acid, sodium salt</i>	>450 - <500 mg/l	48 h	<i>Ceriodaphnia dubia</i>	EC50 intoxication	unmeasured	20672 Warne, M.S.J., and A.D. Schifko, 1999



Plant Guard

Safety Data Sheet

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

12.3 Bioaccumulative potential

Assessment / Classification:

Inorganic. The substance has no potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: Unsuitable containers: Aluminum

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good



- | | |
|--------|---|
| 14.8.4 | Sea transport (IMDG)
Limited quantity: Not applicable
Special provisions: None
Marine pollutant: No
Segregation group: Not applicable
Remark: Non dangerous good |
| 14.8.5 | Air transport (ICAO-TI / IATA-DGR)
Limited quantity: Not applicable
Special provisions: None
Remark: Non dangerous good |

Section 15: REGULATORY INFORMATION

- 15.1 **Safety, health and environmental regulations/legislation specific for the mixture**
- 15.1.1 **US Federal**
 - SARA Title III Rules
 - Section 313 Toxic Chemicals
 - This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.
 - Section 311/312 Hazard Classes
 - Acute Health Hazard: None
 - Chronic Health Hazard: None
 - Fire Hazard: None
 - Release of Pressure: None
 - Reactive Hazard: None
- 15.1.2 **US State Regulations**
 - California Proposition 65
 - This product does not contain any Proposition 65 chemicals
- 15.1.3 **Canada**
 - WHIMIS Classification
 - Not classified
 - This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.
- 15.1.4 **European Union**
 - Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]
 - No additional information available.
- 15.2 **Chemical Safety Assessment:**
 - No additional information available.

Section 16: OTHER INFORMATION

- 16.1 **Indication of changes**
 - Version No.: 1.0 - 07/12/2016
- 16.2 **Disclaimer:**
 - The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: Pro Cal

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet Pro Cal, Pro-Cal, ProCal

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Calcium and magnesium additive formulated to correct calcium and magnesium deficiencies in soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 2

Eye Irrit. 2

2.2 Label elements

Hazard pictograms:



GHS07

Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements:

P264

Wash hands and forearms thoroughly after handling.

P280

Wear protective gloves, clothing, eye protection, and face protection.

P302+P352

IF ON SKIN: Wash with plenty of 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.

P321

For specific treatment, refer to Section 4.

P332+P313

If skin irritation occurs: Get medical attention.

P337+P313

If eye irritation persists: Get medical advice.

P362+P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

2.3 Other hazards

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Causes skin irritation.

EYE CONTACT: Causes serious eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of Calcium nitrate, magnesium nitrate, FeEDTA, MnEDTA, ZnEDTA, Potassium Borate.

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	35-65%	Not Classified
Calcium Nitrate	10124-37-5		233-332-1	10-30%	Category 2: Skin Irritation. Category 2: Eye Irritation. Category 3: Oxidizing Solid
Magnesium Nitrate	10377-60-3		233-826-7	5-10%	Category 3: Oxidizing Solid Category 2: Eye Irritant
Edetic Acid	60-00-4		200-449-4	1-5%	Category 2: Eye Irritation.

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Take off all contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

4.1.3. Following eye contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention.

4.1.4 Following ingestion:

If swallowed, do not induce vomiting. Rinse mouth with plenty of water. Seek medical advice immediately. Bring the container and SDS.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause serious irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Burgundy

Odour: Mineral

	value	temperature	pressure
pH	3.5		Ambient
Melting point/freezing point	0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.09 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: Causes skin irritation.

Assessment / Classification: Category 2 Skin Irritant

Eye damage/irritation

Practical experience / human evidence: Causes serious eye irritation.

Assessment / Classification: Category 2 Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)**STOT SE 1 and 2**

Based on available data, the classification criteria are not met.

STOT SE 3**Irritation to respiratory tract:**

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)**STOT RE 1 and 2**

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity:**12.1.1 Aquatic toxicity****Acute (short-term) fish toxicity**

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>Calcium Nitrate</i>	44.8 ug/l	3-96 h / NA DLY	<i>Pimephales promelas</i>	Physiology – EP Response	unmeasured	163383 Dew, W.A., C.M. Wood, and G.G. Pyle, 2012
<i>Edetic acid</i>	167,000 ug/l	24 h	<i>Ictalurus punctatus</i>	LC50	unmeasured	934 Clemens, H.P., and K.E. Sneed, 1959

Pro Cal

Safety Data Sheet

Chronic (long-term) fish toxicity

	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
Calcium Nitrate	800,000 ug/L	10 days	<i>Gasterosteus aculeatus</i>	Mortality	unmeasured	2851 Jones, J.R.E., 1939
Edetic acid	10,000 ug/l	120 day	<i>Cyprinus carpio</i>	No Effect	unmeasured	14370 Kaviraj, A., and S. Das, 1995

Acute (short-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Magnesium nitrate	32 – 320 mg/l	6 – 24 h	<i>Daphnia magna</i>	Mortality	unmeasured	45194 Tomasik, P., C.H.D. Magadza, S. Mhizha, and A. Chirume, 1995
Edetic Acid	122,000 ug/l	24 h	<i>Daphnia magna</i>	EC50 – ITX	unmeasured	16601 Janssen, C.R., E.Q. Espiritu, and G. Persoone, 1993

Chronic (long-term) toxicity to crustacean

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
Edetic Acid	226 – 234 mg/L	48 h	<i>Daphnia magna</i>	LC50	unmeasured	117622 Sankaramanachi, S.K., and S.R. Qasim, 1999

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

No information available.

12.3 Bioaccumulative potential

Assessment / Classification:

No information available.

12.4 Mobility in soil

Assessment / Classification:

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.



Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.			Non dangerous good	
14.2 UN Proper shipping name			Not applicable	
14.3 Transport hazard class(es)			Not applicable	
Hazard label(s)			Not applicable	
14.4 Packing group			Not applicable	
14.5 Environmental hazards			Not applicable	

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada**WHMIS Classification**

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union**Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.

Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.0 - 07/07/2016

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.

ReZin

Safety Data Sheet

Version: 1.0

Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: REZIN

1.1.1 Mixtures

1.1.2 Other means of identification: Green Planet ReZin

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Specialty fertilizer designed to be used as a flavour, aroma, and essential oil booster for flowers and plants grown in soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

N/A

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 - H316

Eye Dam. 1 - H318

2.2 Label elements

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H316

Causes mild skin irritation

H318

Causes Eye Damage

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.



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P264
P280
P332+P313
P305+P351+P338

Wash hands thoroughly after handling.
Wear eye protection/face protection.
If skin irritation occurs: Get medical advice.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes.

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact Causes Eye Damage.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of lactic acid, citric acid, ascorbic acid, and gluconic acid.

3.1.2 Ingredients:

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
Water	7732-18-5		231-791-2	60-80%	Not Classified
Lactic Acid	50-21-5		200-018-0	5-10%	Category 2: Skin Irritation Category 1: Eye Damage
Citric Acid	77-92-9		201-069-1	5-10%	Not Classified
Ascorbic Acid	50-81-7		200-066-2	5-10%	Not Classified
D-gluconic acid	526-95-4		208-401-4	5-10%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention if allergic response exhibited.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.



4.1.4 Following ingestion:

Wash out mouth with plenty of water. Give large quantities of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritation to eyes and skin.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Oxides of carbon, oxides of nitrogen.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution. Removal by mechanical means (i.e. vacuuming with HEPA filters) preferred. Solids may be placed into appropriate containers for disposal.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Sweep or vacuum (equipped with a HEPA filter) the liquid and dispose in accordance with local waste disposal regulations. Removal by mechanical means (i.e. vacuuming with HEPA filters) preferred. Solids may be placed into appropriate containers for disposal. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

6.4 Reference to other sections: See "Section 8" for a complete list of protective equipment.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.



7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits:

No national limit values established for monoammonium phosphate or potassium nitrate.

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Occupational exposure limit value		Monitoring and observation processes	Peak limitation	Source
				Long term	Short term			

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Safety goggles or safety glasses.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

ReZin

Safety Data Sheet

Version: 1.0

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Light Yellow

Odour: Chemical

	value	temperature	pressure
<i>pH</i>	5.4		Ambient
<i>Melting point/freezing point</i>	0.0 °C		Ambient
<i>Initial boiling point/boiling range</i>	100 °C		Ambient
<i>Flash point</i>			Not Available
<i>Evaporation rate</i>			Not Applicable
<i>Flammability (solid, gas)</i>			Not Available
<i>Upper/lower flammability or explosive limits</i>			Not Available
<i>Upper explosive limits</i>			Not Available
<i>Lower explosive limits</i>			Not Available
<i>Vapour pressure</i>			Not Applicable
<i>Vapour density</i>			Not Applicable
<i>Relative density</i>	1.04 g/ml		Ambient
<i>Solubility(ies)</i>			Complete in water
<i>Partition coefficient: n-octanol/water</i>			Not available
<i>Auto-ignition temperature</i>			Not available
<i>Decomposition temperature</i>			Not available
<i>Viscosity</i>			Not Applicable
<i>Viscosity, dynamic</i>			Not Applicable
<i>Viscosity, cinematic</i>			Not Applicable
<i>Explosive properties</i>			Not considered explosive
<i>Oxidising properties</i>			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.



Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 – Skin Irritant.

Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 1 – Eye Damage

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenic, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)

STOT SE 1 and 2

Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract:

Based on available data, the classification criteria are not met.

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

STOT RE 1 and 2

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

12.1.1 Aquatic toxicity

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.

Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Non dangerous good			
14.2 UN Proper shipping name	Not applicable			
14.3 Transport hazard class(es)	Not applicable			
Hazard label(s)	Not applicable			
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code



14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada

WHIMIS Classification

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union

Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Not classified as hazardous.

15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment is not required.

Section 16: OTHER INFORMATION

16.1 Indication of changes

Version No.: 1.0 - 31/08/2017

16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.



Section 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier: VitaThrive

1.1.1 Mixture

1.1.2 Other means of identification: Green Planet VitaThrive

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Multivitamin additive designed to be used as a conditioner for: soil, soilless, coco coir, hydroponic or any other growing media application.

1.2.2 Uses advised against:

Mixing the product in concentrate with other fertilizer products.

Reasons: formation of precipitate, sediment, or insoluble components.

1.3 Details of the supplier of the safety data sheet:

Supplier:

WHOLESALE HORTICULTURAL GROUP Pty Ltd

3 Legacy Rd

EPPING VIC 3076

Australia

Tel: +61 3 9335 3310 Fax: +61 3 9335 3309

E-Mail : info@whg.net.au

1.4 EMERGENCY TELEPHONE NUMBER: +61 418 388 755

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification

Skin Irrit. 3 – H316

Eye Irrit. 2B –H320

2.2 Label elements

Hazard pictograms:

N/A

Signal word:

Warning

Hazard statements:

H316

Causes mild skin irritation.

H320

Causes eye irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label on hand.

P102

Keep out of reach of children.

P103

Read label before use.

P264

Wash hands thoroughly after handling.

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.

2.3 Other hazards

REACTIVITY: Not reactive.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin and eyes.

ACUTE:

INHALATION: No data available.

CONTACT WITH SKIN: Exposure may cause mild skin irritation.

EYE CONTACT: Contact can cause eye irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Description of the mixture:

Aqueous solution of ascorbic acid, thiamine, riboflavin, pyridoxine hydrochloride, cyanocobalamin.

3.1.2 Ingredients:

	Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification
	Water	7732-18-5		231-791-2	50-80%	Not Classified
	Ascorbic acid	50-81-7		200-066-2	5-10%	Not Classified
	Thiamine	59-43-8		200-425-3	5-10%	Not Classified
	Riboflavin	83-88-5		201-507-1	5-10%	Not Classified
	Pyridoxine hydrochloride	58-56-0		200-386-2	5-10%	Not Classified
	Cyanocobalamin	68-19-9		200-680-0	1-5%	Not Classified

3.1.3 Additional information:

This mixture does not contain further substances fulfilling the criteria of hazard class acute toxicity according to CLP regulation.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Following inhalation:

If breathing becomes difficult, move the person to fresh air. If not breathing, or breathing becomes irregular, provide artificial respiration or oxygen by trained personal. Seek medical attention.

4.1.2. Following skin contact:

Rinse the affected area with plenty of water. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before reuse.

4.1.3. Following eye contact:

If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

4.1.4 Following ingestion:

Wash out mouth with plenty of water. Do not induce vomiting unless instructed to do so by medical personal. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritant. May cause skin and eye irritation. Effects of exposure to substance may be delayed.

4.2.1 Inhalation:

May cause respiratory irritation if inhaled. Symptoms may be delayed.

4.2.2. Skin contact:

Contact may cause irritation.

4.2.3. Eye contact:

Contact may cause irritation.

4.2.4 Ingestion:

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Fire can be extinguished with water, carbon dioxide, powder or foam. Use extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing media: None are known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None are known.

5.3 Advice for fire-fighters:

Wear appropriate protective equipment and a Self-Containing Breathing Apparatus (SCBA). Isolate the materials not yet involved in the fire and protect personal. Move the containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment: Wear safety glasses, use an appropriate respirator when ventilation is inadequate, wear chemical resistant gloves before handling the product.

Emergency procedures: Do not touch or walk through spilled material without suitable training.

6.1.2 For emergency responders:

Personal protective equipment: For complete personal protection, see section 8.

6.2 Environmental precautions

If possible, prevent entry into sewers, storm drains, surface waters, and soils. If contamination occurs, inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Stop leaks if possible without risk. Move containers away from spill area. Cover drains, storm, and sewer entrances.

6.3.2 For cleaning up:

Spilled liquid should be removed immediately as to avoid formation of dust from dried preparation. Rinse the area with water and mop up the remainder of the residue. **DO NOT USE BLEACH.**

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:

To prevent skin and eye contact, wear appropriate protective clothing and safety eye ware. Avoid spills and keep away from drains. Keep the container tightly closed when not in use.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink or smoke when handling the material. Wash hands and face after handling the material. Remove contaminated clothing and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep the container tightly closed, in a well ventilated area, away from direct sources of heat or ignition. Do not store in direct sunlight. Keep between 0-35 °C (32-95 °F). Do not store unlabelled containers. Do not store opened containers on its side.

Requirements for storage rooms and vessels:

Ambient temperature, humidity and pressure.

7.3 Specific end uses:

Recommendations: liquid fertilizer for hydroponic, soilless, soil and coco coir media.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Limit value type (country of origin)	Substance name	Occupational exposure limit value		EC-No.	CAS-No.	Monitoring and observation processes	Peak limitation	Source
		Long term	Short term					
n/a								

8.1.2 Exposure limits at intended use:

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Sufficient ventilation should always be provided to control worker exposure to airborne contaminants. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure controls.

8.2.2 Personal protective equipment:

8.2.2.1 Eye / Face protection:

Suitable eye protection: Face shield. Chemical safety goggles.

Other eye protection measures: Face shield if sufficient risk of splashing is present. Refer to U.S. OSHA 29 CFR 1910.133 or the European Standard EN166.

8.2.2.2 Skin protection:

Hand protection: Chemical resistant neoprene or polyvinyl alcohol gloves.

Body protection: Use body protection appropriate for the task. Chemical resistant suit and boots. Do not wear sandals, shorts, or cut of t-shirts.

Other skin protection measures: If deemed necessary, refer to U.S. OSHA 29 CFR 1910.136/138, or the European Standard DIN EN 374

8.2.2.3 Respiratory protection:

Not required in properly ventilated areas.

8.2.2.4 Thermal hazards

None applicable.

8.2.3 Environmental exposure controls:

Refer to "Section 6" for environmental containment and clean up.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid

Colour: Yellow/Orange

Odour: Vitamin

	value	temperature	pressure
pH	5.5		Ambient
Melting point/freezing point	0°C		Ambient
Initial boiling point/boiling range	100°C		Ambient
Flash point			Not Available
Evaporation rate			Not Applicable
Flammability (solid, gas)			Not Available
Upper/lower flammability or explosive limits			Not Available
Upper explosive limits			Not Available
Lower explosive limits			Not Available
Vapour pressure			Not Available
Vapour density			Not Applicable
Relative density	1.0 g/ml		Ambient
Solubility(ies)			Complete in water
Partition coefficient: n-octanol/water			Not available
Auto-ignition temperature			Not available
Decomposition temperature			Not available
Viscosity			Not Applicable
Viscosity, dynamic			Not Applicable
Viscosity, cinematic			Not Applicable
Explosive properties			Not considered explosive
Oxidising properties			Not considered an oxidizer

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No hazardous reactions when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

None are known.

10.4 Conditions to avoid:

Freezing. Evaporation until dryness. High temperatures. Exposure to sunlight.

10.5 Incompatible materials:

None are known.

10.6 Hazardous decomposition products:

No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: May cause mild skin irritation.

Assessment / Classification: Category 3 Skin Irritant

Eye damage/irritation

Practical experience / human evidence: May cause eye irritation.

Assessment / Classification: Category 2B Eye Irritant

Sensitization to the respiratory tract/skin

Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties:

Ingredients within this product are not found on the following lists: OSHA Subpart Z, EPA IRIS, IARC, NTP, CalEPA; and therefore are not considered to be, nor suspected to be, cancer causing by these agencies.

Specific target organ toxicity (single exposure)

STOT SE 1 and 2

Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract:

May cause respiratory irritation – inhalation

Narcotic effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

STOT RE 1 and 2

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

12.1.1 Aquatic toxicity

Acute (short-term) fish toxicity

	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>L-Ascorbic Acid</i>	200 mg/100 g food	96 h	<i>Oreochromis niloticus</i>	NOEC	unmeasured	160149 Ozkan, F., S.G. Gunduz, M. Berkoz, A.O. Hunt, and S. Yalin, 2011
<i>(-)-Riboflavin</i>	64.3 mg/L	96 h	<i>Pimephales promelas</i>	Mortality – NEF	unmeasured	12859 Geiger, D.L., D.J. Call, and L.T. Brooke, 1988
<i>5-Hydroxy-6-methyl- 3,4- pyridinedimethanol, Hydrochloride</i>	10 mg/L	24 h	<i>Ptychocheilus oregonensis</i>	Mortality – NR	unmeasured	15148 MacPhee, C., and R. Ruelle, 1969

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<i>Cyanocobalamin</i>	35 uCi	96 h	Chasmichthys gulosus	ACC – BCF 3	unmeasured	10670 Ueda, T., and M. Nakahara, 1983
Chronic (long-term) fish toxicity						
	Effect dose/ Concentration	Test duration	Species	Result/ Evaluation	Method	Remark
<i>L-Ascorbic Acid</i>	24 ppm	17 Weeks(s)	<i>Salmo salar</i>	No Effect	unmeasured	20405 Halver, J.E., and R.W. Hardy, 1994
Acute (short-term) toxicity to crustacean						
	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>L-Ascorbic Acid</i>	100 umol/L	4 h	<i>Mytilus edulis</i>	INC – Growth (119%)	unmeasured	94730 Etoh, H., S. Hageshita, and K. Ina, 1997
Chronic (long-term) toxicity to crustacean						
	Effect dose/ Concentration	Test Duration	Species	Result/ Evaluation	Method	Remark
<i>L-Ascorbic Acid</i>	0-50 mg/L	48 h	<i>Dreissena polymorpha</i>	Ability to detach from substrate	unmeasured	18157 Cope, W.G., M.R. Bartsch, and L.L. Marking, 1997

12.2 Persistence and degradability

Biodegradation:

Assessment / Classification:

Readily biodegradable (according to OECD Guideline 302B).

12.3 Bioaccumulative potential

Assessment / Classification:

The product completely dissociates in water. Based on physiochemical properties (high water solubility), the product has a low potential for bioaccumulation.

12.4 Mobility in soil

Assessment / Classification:

The product has a low potential for adsorption. Portion not taken up by the plants, can leach into ground water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Disposal should be in accordance with applicable federal and state laws.

13.1.2 Other disposal recommendations:

Agricultural producers disposing of waste from their own use are exempt from hazardous waste requirements as long as (1) they triple rinse the emptied containers in accordance with the labeling to facilitate removal of the chemical from the container, and (2) they dispose of the residue on their own agricultural establishment in a manner consistent with the disposal instructions in accordance with the federal and state laws.

13.2 Additional information:

Irrigation return flows are not considered hazardous waste.

The product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

The product does not have an EPA Hazardous Waste Number.



Section 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.			Non dangerous good	
14.2 UN Proper shipping name			Not applicable	
14.3 Transport hazard class(es)			Not applicable	
Hazard label(s)			Not applicable	
14.4 Packing group			Not applicable	
14.5 Environmental hazards			Not applicable	

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Additional information

14.8.1 All transport carriers

14.8.2 Land transport (ADR/RID)

Limited quantity: Not applicable

Special provisions: None

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.): Not applicable

Remark: Non dangerous good

14.8.3 Inland waterway transport (ADN)

Limited quantity: Not applicable

Special provisions: None

Category: Not applicable

Remark: Non dangerous good

14.8.4 Sea transport (IMDG)

Limited quantity: Not applicable

Special provisions: None

Marine pollutant: No

Segregation group: Not applicable

Remark: Non dangerous good

14.8.5 Air transport (ICAO-TI / IATA-DGR)

Limited quantity: Not applicable

Special provisions: None

Remark: Non dangerous good

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 US Federal

SARA Title III Rules

Section 313 Toxic Chemicals

This product does not contain any chemicals which are subject to reporting requirements of the Act and 40 CFR Part 372.

Section 311/312 Hazard Classes

Acute Health Hazard: None

Chronic Health Hazard: None

Fire Hazard: None

Release of Pressure: None

Reactive Hazard: None

15.1.2 US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

15.1.3 Canada**WHIMIS Classification**

Not classified

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.1.4 European Union**Classification according to the Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

No additional information available.

15.2 Chemical Safety Assessment:

No additional information available.

Section 16: OTHER INFORMATION

16.1 Indication of changes

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16.2 Disclaimer:

The information provided on this SDS is believed to be accurate to the best of our knowledge, but is not warranted to be so. The information provided is intended to present guidance for safe handling, use, processing, storage, transport, disposal, and discharge; it is not intended to be a guarantee or quality specification. Green Planet LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if safety procedure are not adhered to as stipulated in the SDS. Furthermore, Green Planet LLC assumes no responsibility for injury caused by abnormal use of the product even if reasonable safety procedures are followed. It is the responsibility of the recipient of this SDS to ensure that information given here is read and understood by all who use, handle, dispose of, or in any way come in contact with the product.