

# SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **PG MIX 14-16-18 (LOW MO)** 

tem Code: PG31FK Product Use: Fertiliser

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

**Emergency Telephone:** 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 10 April 2024 v2

### Section 2. **Hazards Identification**

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Fertilisers (subsidiary) - HSR002571

Signal Word: Warning

<b>GHS Classification and Category</b>	Hazard Code	Hazard Statement	
Hazardous to the aquatic	H412	Harmful to aquatic life with long	
environment chronic Cat. 3		lasting effects.	

<b>Prevention Code</b>	Prevention Statement
P273	Avoid release to the environment.

Response Code	Response Statement
None allocated	

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. **Composition / Information on Ingredients**

Ingredients	Wt%	CAS NUMBER.	
Copper Sulphate Pentahydrate	>= 0.3 - < 1	7758-99-8	

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Date of SDS: 10 April 2024 Tel: 64 9 475 5240 www.techcomp.co.nz There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8. The total concentration of ingredients in this product, reported or not in this section, is 100%.

Remark: This product contains Boron (see section 7 and 11). The content is below the level required for classification of the product as toxic to reproduction.

## Section 4. First Aid Measures

### Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists, call

doctor/physician.

If on Skin Wash skin with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Wash out mouth with water. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get

medical attention if you feel unwell.

If Inhaled Remove to fresh air. In case of inhalation of decomposition products in a

fire, symptoms may be delayed. Get medical attention if you feel unwell. The exposed person may need to be kept under medical surveillance for

48 hours.

## Most important symptoms and effects, both acute and delayed

Symptoms: Refer to Section 11.

Ingestion: Not applicable.

**Inhalation:** Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure

**Skin:** Not applicable. **Eyes:** Not applicable.

**Treatment:** Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection of

No action shall be taken involving any personal risk or without

**first-aiders:** suitable training.

# Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from	Decomposition products may include the following materials:
decomposition	nitrogen oxides, sulfur oxides, phosphorus oxides, metal
products	oxide/oxides, ammonia, Avoid breathing dusts, vapors or
	fumes from burning materials., In case of inhalation of
	decomposition products in a fire, symptoms may be delayed.
Suitable	Use flooding quantities of water for extinction.
Extinguishing	Do NOT use chemical extinguisher or foam or attempt to smother the
media	fire with steam or sand.
Precautions for	Fire-fighters should wear appropriate protective equipment
firefighters and	and self-contained breathing apparatus (SCBA) with a full face-piece
special protective	operated in positive pressure mode. Promptly isolate the scene by
clothing	removing all persons from the vicinity of the incident if there is a fire.
	No action shall be taken involving any personal risk or without suitable
	training.

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**HAZCHEM CODE** None allocated

### Section 6. **Accidental Release Measures**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### **SMALL SPILLS**

Move containers from spill area. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

### LARGE SPILLS

Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

### Section 7. **Handling and Storage**

### **Precautions for Handling:**

- Put on appropriate personal protective equipment (see Section 8).
- As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age.
- Avoid dust generation.
- Do not breathe dust.
- Do not ingest.
- Avoid contact with eyes, skin and clothing.
- Avoid release to the environment.
- Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
- Empty containers retain product residue and can be hazardous.
- · Do not reuse container.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Workers should wash hands and face before eating, drinking and smoking.
- Remove contaminated clothing and protective equipment before entering eating areas.

## **Precautions for Storage:**

- Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink.
- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Do not store in unlabeled containers.
- Use appropriate containment to avoid environmental contamination.
- Keep away from: organic materials, oil and grease.
- Do not generate and inhale liquid fertilizer aerosols.

### Section 8 **Exposure Controls / Personal Protection**

## WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL **Substance** ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Product Name: PG Mix 14-16-18 (LOW MO) SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 10 April 2024

Tel: 64 9 475 5240 www.techcomp.co.nz Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

### **Engineering Controls**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process acceptable levels.

### **Personal Protection Equipment**







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Eyes	Safety eyewear complying with an approved standard should
	be used when a risk assessment indicates this is necessary to avoid
	exposure to liquid splashes, mists, gases or dusts.
	Recommended: Tightly-fitting goggles
Hands and	Chemical-resistant, impervious gloves complying with an
Skin	approved standard should be worn at all times when handling chemical
	products if a risk assessment indicates this is necessary. For general
	applications, we recommend gloves with a thickness typically greater than
	0.35 mm. Personal protective equipment for the body should be selected
	based on the task being performed and the risks involved and should be
	approved by a specialist before handling this product. Appropriate footwear
	and any additional skin protection measures should be selected based on
	the task being performed and the risks involved and should be approved by
	a specialist before handling this product.
Respiratory	Use respiratory protection with more than 94% efficiency (P2,
Respiratory	
	P3 or N95) and a tight face seal, when risk of exposure to dust.
General	A washing facility or water for eye and skin cleaning purposes
	should be present. Wash hands, forearms and face thoroughly
	after handling chemical products, before eating, smoking and
	using the lavatory and at the end of the working period. Wash
	contaminated clothing before reusing.
	Containinated Clothing Derore reusing.

# Section 9 Physical and Chemical Properties

Appearance	Solid (Crystalline)
Colour	White
Odour	odourless
Odour Threshold	Not available
pH	3.9 - 4.9 [Conc. (% w/w): 10 g/l ]
<b>Boiling Point</b>	Not available
Melting Point	> 160 °C
Freezing Point	> 160 °C
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
<b>Explosive Limits</b>	
<b>Vapour Pressure</b>	Not available
Vapour Density	Not available
Bulk Density	960 kg/m <sup>3</sup>

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Solubilities	Soluble in water
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Median Particle Size	0.3 - 0.8 mm

# **Section 10. Stability and Reactivity**

Stability of Substance	This product is stable under normal conditions of storage and
	use.
<b>Hazardous Reactions</b>	No known hazardous reactions.
Conditions to Avoid	Avoid contamination by any source including metals, dust and
	organic materials.
<b>Incompatible Materials</b>	alkalis
	combustible materials
	reducing materials
	organic materials
	Acids
<b>Hazardous Decomposition</b>	Under normal conditions of storage and use, hazardous
Products	decomposition products should not be produced.

### Section 11 **Toxicological Information**

## **Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable. Exposure to decomposition products may cause a
	health hazard. Serious effects may be delayed following exposure.
Eye	Not applicable.
Skin	Not applicable.

## **Chronic Effects:**

Carcinogenicity	Not applicable.			
Reproductive	Not applicable.			
Toxicity				
Germ Cell	Not applicable.			
Mutagenicity				
Aspiration	Not applicable.			
STOT/SE	Not applicable.			
STOT/RE	Not applicable.			

## **Acute toxicity**

Product/ingre dient name	Result	Species	Dose	Exposure
copper sulphate pentahydrate	LD50 Oral	Rat	481 mg/kg OECD 401	Not applicable.
	LD50 Dermal	Rat	> 5,000 mg/kg	Not

Irritation/Corrosion

Product/ingred ient name	Result	Species	Exposure	Method
copper sulphate pentahydrate	Severe Irritant	Rabbit	-	OECD 405 Eyes

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## **Section 12. Ecotoxicological Information**

Harmful to aquatic life with long lasting effects.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

### **Toxicity**

Product/ingredient name	Method	Species	Exposure	Result	
copper sulphate pentahydrate					
	Acute LC50 Fresh Water	Fish	96 h	0.032 mg/l	
	Acute NOEC Fresh Water	Daphnia	N/A	0.029 mg/l	

Do not allow to enter waterways.

## Section 13. Disposal Considerations

### **Disposal Method:**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or returned for recycling.

**Precautions or methods to avoid:** Avoid release to the environment.

### **Section 14 Transport Information**

### This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

#### **Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

HSWA & EPA Controls	Trigger Quantity	
Certified Handler	Not required	
Location Certificate	Not required	
Tracking Trigger Quantities	Not required	
Signage Trigger Quantities	1000kg	
Emergency Response Plan	1000kg	
Secondary Containment	1000kg	
Restriction of Use	None	

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Date of SDS: 10 April 2024 Tel: 64 9 475 5240 www.techcomp.co.nz **Section 16 Other Information** Glossary EC50 Median effective concentration. **EEL** Environmental Exposure Limit. **Environmental Protection Authority EPA HSNO** Hazardous Substances and New Organisms. LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. LD50 Lethal dose to kill 50% of test animals/organisms. LEL Lower explosive level. American Occupational Safety and Health Administration. **OSHA** 

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

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