



Tui Products Ltd.

Document Name:  
**SAFETY DATA SHEET – TUI SUPERPHOSPHATE**

Date of issue:  
April 2014

Version No:  
1

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## **SAFETY DATA SHEET**

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:**

**Product Name:** Tui Superphosphate

**Recommended Use:** Fertiliser for use in the home garden.

**Company:** Tui Products Ltd  
**Address:** Truman Lane,  
Mount Maunganui  
New Zealand

**Telephone Number:** +64 7 5752160

**Emergency Telephone Numbers:** 0800 CHEMCALL (0800 243 622) 24 hours  
0800 POISON (0800 764 766) National Poisons Centre  
111 – New Zealand Fire Service

**Date of Preparation:** April 2014


### **2. HAZARDS IDENTIFICATION:**

**Dangerous Goods:** Not classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

**Hazardous Substance (HSNO):** Classified as hazardous according to criteria in the HS (Minimum Degree of Hazard) Regulations 2001.

**HSNO Hazard Classifications:** 6.1E, 6.3B, 6.4A, 9.1D.

**Signal Word:** Danger



**Hazard Statements:** May be fatal if swallowed and enters airways  
Causes mild skin irritation  
Causes serious eye irritation  
Harmful to aquatic life

**Prevention Statements:** Keep out of reach of children  
Read label before use  
Read Safety Data Sheet before use  
Wash hands and face thoroughly after handling  
Wear eye protection/face protection.

**Response Statements:** If medical advice is needed, have product container or label at hand.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

**Storage Statements:** Store locked up.

**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

COMPONENT	CONCENTRATION	CAS NUMBER
Calcium Sulphate	50%	7778-18-9
Calcium Phosphate Monobasic	30%	7758-23-8
Water	7%	7732-18-5
Calcium Hexafluorosilicate	4%	16925-39-6
Calcium Phosphate Dibasic	2%	7758-93-9
Calcium Phosphate Tribasic	2%	7758-87-4

**4. FIRST AID MEASURES:**

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician.

<b>Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Contact a doctor.
<b>Ingestion:</b>	If swallowed, seek immediate medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
<b>Eye Contact:</b>	Immediately flush with cold water. Continue for at least 15 minutes. Remove contact lenses if present and easy to do so. Seek medical advice.
<b>Skin Contact:</b>	Wash the skin well with plenty of water and soap whilst removing contaminated clothing. Wash clothing before re-use.
<b>Notes to Physician:</b>	Treat symptomatically.

**5. FIRE FIGHTING MEASURES:**

<b>Suitable Extinguishing Media:</b>	Not combustible, however, if material is involved in a fire use extinguishing media appropriate for surrounding fire.
<b>Precautions for fire fighters and special protective clothing:</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
<b>Hazards from combustion products:</b>	Decomposes on heating emitting toxic fumes including sulphur oxides, phosphorus oxides and fluorides.

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Emergency Procedures:</b>	Protect yourself and others from injury. Wear appropriate protective clothing to prevent skin and eye contact. If contamination of sewers or waterways has occurred advise local emergency services.
<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment to prevent contamination of skin, eyes and personal clothing.
<b>Environmental Precautions:</b>	Contain – Prevent product from entering into soil, ditches, sewers, waterways and/or groundwater.
<b>Methods and Materials for Containment and Clean up:</b>	Contain the spill and prevent entry into waterways and drains. Avoid generating dust. Wear appropriate protective clothing to prevent skin and eye contact. Avoid breathing in dust. Contain spill and sweep or vacuum up, collect spilled product and place in properly labelled, sealable container for reuse or disposal. If contamination of sewers or waterways has occurred advise local emergency services.



## 7. HANDLING & STORAGE:

### Precautions for safe handling and storage:

#### Handling:

Keep out of reach of children.  
Avoid skin, eye and contact.  
Wash hands, face and exposed skin thoroughly after handling  
Avoid generating dust, and do not breathe in dust.  
Avoid unintended release to the environment.

#### Storage:

Store locked up.  
Store in a tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight. Store away from children, animals, food, feedstuffs, drink containers, fertilisers and seeds. Keep containers closed when not in use and check regularly for leaks.

Tui Superphosphate is subject to the requirement for an emergency management plan, and signage whenever it is held in quantities of 10000 kg or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances Emergency Management and Identification Regulations for further information.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

### Occupational Exposure Limits:

No value assigned for this specific material by EPA or NZ Dept. of Labour Health & Safety.  
However, Workplace Exposure Standard(s) for particulates not otherwise classified:  
Inhalable dust: WES-TWA 10 mg/m<sup>3</sup>  
Respirable dust: WES-TWA 3 mg/m<sup>3</sup>  
Workplace Exposure Standard(s) constituent(s):  
Fluorides, as F: WES-TWA 2.5 mg/m<sup>3</sup>, biological exposure index.  
As published in Workplace Exposure Standards and Biological Exposure Indices – July 2011, 6<sup>th</sup> edition.

### Engineering Controls:

Handle in a well-ventilated area; ensure ventilation is adequate to maintain air concentrations below exposure standards. If dust is generated use local extraction to control. Avoid inhalation of dust. Keep containers closed when not in use.

### Personal Protective Equipment:

Avoid contact with eyes, skin and breathing in dust

#### **Respiratory Protection:**

Use with adequate ventilation, atmospheric levels should be maintained below the exposure guidelines.

#### **Skin protection:**

Using rubber gloves is recommended when handling.

Wash hands, face and exposed skin thoroughly after use and before smoking, eating, drinking or using the toilet.

#### **Eye protection:**

Avoid eye contact when handling. Safety glasses can be used to reduce eye contact.



## 9. PHYSICAL AND CHEMICAL PROPERTIES:

<b>Appearance:</b>	Granular grey or brown solid.
<b>Odour:</b>	No specific odour.
<b>pH:</b>	Not available.
<b>Solubility in water:</b>	Partially soluble
<b>Bulk Density (kg/m<sup>3</sup>):</b>	1150 kg/m <sup>3</sup> .
<b>Flash point (°C):</b>	Not applicable.
<b>Specific Gravity:</b>	Not applicable.
<b>Melting Point (°C):</b>	Not applicable.

## 10. STABILITY and REACTIVITY:

<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Avoid excessive heat, sources of ignition and open flame.
<b>Incompatible materials:</b>	None known.
<b>Hazardous decomposition products:</b>	Decomposes on heating emitting toxic fumes including sulphur oxides, phosphorus oxides and fluorides.
<b>Hazardous Reactions:</b>	Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION:

**Potential Health Effects:** This section includes possible adverse effects, which could occur if the product is not handled in the recommended manner.

<b>Eye Contact:</b>	An eye irritant. Causes serious eye irritation. Direct contact may result in lachrymation (tears), pain, redness and conjunctivitis.
<b>Skin:</b>	Irritant. Prolonged and repeated skin exposure may result in irritation, skin rash and dermatitis.
<b>Ingestion:</b>	Ingestion of large quantities may cause nausea, vomiting, thirst and headache.
<b>Inhalation:</b>	Irritant. Over exposure may cause mucous membrane irritation and coughing.
<b>Toxicity Data:</b>	No LD <sub>50</sub> data available for the product.
<b>Long Term Effects:</b>	May be harmful to human target organs or systems. This product contains up to 2.5% fluoride (F) as an impurity. Chronic ingestion, eg. improper or inadvertent use as a dietary phosphorus supplement for ruminants (cattle and sheep), may result in fluorosis.

## 12. ECOLOGICAL INFORMATION:

<b>Ecotoxicity:</b>	Avoid unintended release to the environment, sewers or waterways.
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### 13. DISPOSAL CONSIDERATIONS:

**Disposal methods:**

Dispose of this product by using in accordance with the product label directions.  
Do not dispose of this product; down drains or sewers.  
Collect any unused product and dispose of in an approved landfill.  
Packaging disposal – Dispose of packaging safely with domestic rubbish or crush and bury packaging in a suitable approved landfill.  
If wastes and/or packaging cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations. Some local authorities offer hazardous waste collection, contact your local council for details.

### 14. TRANSPORT INFORMATION:

Not classified as a Dangerous Good for Transport.

**Maximum volume permitted to be transported in a passenger service vehicle:** 10 kg per bag.

### 15. REGULATORY INFORMATION:

**EPA New Zealand Approval Code:** HSR002571.

### 16. OTHER INFORMATION:

**Date of preparation of SDS:** April 2014.

**Abbreviations in SDS:**

**EPA:** The Environmental Protection Authority of New Zealand.  
**LD<sub>50</sub>:** Lethal Dose-50%. The doses of a chemical that will kill 50% of the test animals receiving it.  
**pH:** A measurement of how acidic or alkaline a material is using a scale of 1 -14. pH 1 is strongly acidic, pH 14 is strongly alkaline.  
**WES:** Work place exposure standard set by EPA or NZ Dept. of Labour Health & Safety.

**DISCLAIMER:**

This product must be used strictly as directed. To the maximum extent permitted by law Tui Products Limited, its officers, employees, agents, distributors and retailers shall have no liability to any purchaser or user of this product, or any other person, for any loss, damage or injury (including personal injury) arising out of the use or storage of this product otherwise than in accordance with the directions for use and storage.

----- End of SDS -----