



# Safety Data Sheet

according to WHS Regulations

Printing date 31.05.2022

Revision: 31.05.2022

## 1 Identification

**Product Name: Optifert MAP TECHNICAL GRADE**

**Other Means of Identification:** Substance - Inorganic salt of potassium and phosphoric acid.

**Recommended Use of the Chemical and Restriction on Use:** Agricultural fertiliser

**Details of Manufacturer or Importer:**

Titan Ag Pty Ltd  
Princes Street Marina  
Suite 15/16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.  
The substance is not classified, according to the Globally Harmonised System (GHS).

**Signal Word** None

**Hazard Statements** None

## 3 Composition and Information on Ingredients

**Chemical Characterisation: Substances**

**CAS No. Description**

CAS: 7778-77-0 Phosphoric acid, monopotassium salt 100%

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water and give some water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild, transient skin irritation.

Eye Contact: May cause slight eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Burning sensation and reddening of mouth and throat.

(Contd. on page 2)

# Safety Data Sheet

according to WHS Regulations

Printing date 31.05.2022

Revision: 31.05.2022

**Product Name: Optifert MAP TECHNICAL GRADE**

(Contd. of page 1)

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of phosphorus and other phosphorus compounds.

Product is non-combustible.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved P1 dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile, collect the spilled material and place into a suitable container for disposal. Avoid generating dust. Provide adequate ventilation. Consider vacuuming if appropriate.

## 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container dry and tightly closed when not in use. Inspect regularly for damage or leaks. Keep away from bases, zinc, tin, aluminium and their alloys. Protect from moisture.

## 8 Exposure Controls and Personal Protection

**Exposure Standards:**

Nuisance dust:

TWA - 10 mg/m<sup>3</sup> (total dust)

TWA - 2 mg/m<sup>3</sup> (inspirable dust)

**Engineering Controls:**

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

**Respiratory Protection:**

Use an approved P1 dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Elbow length PVC gloves are recommended. See Australian/New Zealand Standard AS/NZS 2161 for more information.

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date 31.05.2022

Revision: 31.05.2022

**Product Name: Optifert MAP TECHNICAL GRADE**

(Contd. of page 2)

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing including cotton overall buttoned to neck and wrist, safety boots, and a washable hat are recommended (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Granular or crystalline solid.
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Expected to be moderately acidic.
<b>Melting point/freezing point:</b>	253 °C
<b>Initial Boiling Point/Boiling Range:</b>	400 °C (at 100kPa)
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Product is not flammable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	2.34 g/cm <sup>3</sup>
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	22 g/100mL
<b>Partition Coefficient (n-octanol/water):</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Exposure to moisture.

**Incompatible Materials:** Bases, zinc, tin, aluminium and their alloys.

**Hazardous Decomposition Products:** Oxides of phosphorus and other phosphorus compounds.

### 11 Toxicological Information

**Toxicity:****Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

**Skin:** May cause mild, transient skin irritation.

**Eye:** May cause slight eye irritation.

(Contd. on page 4)

# Safety Data Sheet

## according to WHS Regulations

Printing date 31.05.2022

Revision: 31.05.2022

**Product Name: Optifert MAP TECHNICAL GRADE**

(Contd. of page 3)

**Ingestion:**

May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Burning sensation and reddening of mouth and throat.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No data for health effects associated with long term exposure.

**Existing Conditions Aggravated by Exposure:** No information available.

## 12 Ecological Information

**Ecotoxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Aquatic toxicity:** Ecotoxicity believed to be low.

**Persistence and Degradability:** Not biodegradable.

**Bioaccumulative Potential:** No data available on finished product.

**Mobility in Soil:** No data available on finished product.

**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

**UN Number** Not regulated

**Proper Shipping Name** Not regulated

**Dangerous Goods Class** Not regulated

**Packing Group:** Not regulated

**Marine pollutant:** No

(Contd. on page 5)

# Safety Data Sheet

## according to WHS Regulations

Printing date 31.05.2022

Revision: 31.05.2022

**Product Name: Optifert MAP TECHNICAL GRADE**

(Contd. of page 4)

### 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

CAS: 7778-77-0 | Phosphoric acid, monopotassium salt

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

### 16 Other Information

**Date of Preparation or Last Revision:** 31.05.2022**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)
**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Data altered compared to the previous version:**

Section 1: Product Name

Section 4: Inhalation, Ingestion, Symptoms caused by exposure

Section 5: Specific hazards arising from the chemical

Section 8: Exposure Standards, Skin Protection

Section 11: Acute Health Effects

Section 12: Ecotoxicity

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Titan Ag Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.