



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 14.01.2015

Revision: 14.01.2015

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** TITAN MAP TECHNICAL GRADE

**Other Means of Identification:** 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  
Suite 15 / 16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

**Signal Word** Void

**Hazard Statements** Void

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterisation: Substances**

**CAS No. Description**

7778-77-0 Phosphoric acid, monopotassium salt

## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air.

**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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, do not induce vomiting. Wash mouth with water and give some water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

**Symptoms Caused by Exposure:**

Skin Contact: May cause mild, transient skin irritation.

Eye Contact: May cause slight eye irritation.

Ingestion: May cause burning sensation and reddening of skin in mouth and throat.

## 5 . FIRE FIGHTING MEASURES

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

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**Specific Hazards Arising from the Chemical:**

Fire decomposition products are oxides of phosphorus and other phosphorus compounds.  
Product is a non-combustible solid.

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

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

**6 . ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved dust mask P1 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 powder into a pile and shovel into drums for subsequent 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.

**8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Use a Safe Work Australia approved dust mask P1 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, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 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.

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## 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>                     | Odourless                         |
| <b>pH-Value:</b>                            | Expected to be moderately acidic. |
| <b>Melting point/Melting range:</b>         | 253 °C                            |
| <b>Initial Boiling Point/Boiling Range:</b> | 400 °C (at 100kPa)                |
| <b>Flash Point:</b>                         | Not applicable                    |
| <b>Flammability:</b>                        | Product is not flammable.         |
| <b>Auto-ignition Temperature:</b>           | Not applicable                    |
| <b>Decomposition Temperature:</b>           | No information available          |
| <b>Explosion Limits:</b>                    |                                   |
| <b>Lower:</b>                               | Not applicable                    |
| <b>Upper:</b>                               | Not applicable                    |
| <b>Vapour Pressure:</b>                     | No information available          |
| <b>Density:</b>                             | Not determined.                   |
| <b>Relative Density at 20 °C:</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 at 20 °C:</b>        | 22 g/100mL                        |

## 10 . STABILITY AND REACTIVITY

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

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

**Conditions to Avoid:** Water and 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:** No adverse health effects expected.

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

**Eye:** May cause mild, transient eye irritation.

**Ingestion:** May cause burning sensation and reddening of skin in 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.

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**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:** Ecotoxicity believed to be low.**Aquatic toxicity:** Ecotoxicity believed to be low.**Persistence and Degradability:** Not biodegradable.**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available**Other adverse effects:** No 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**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

7778-77-0 | Phosphoric acid, monopotassium salt

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

Not a scheduled poison.

**16 . OTHER INFORMATION****Creation Date:** 14.01.2015**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

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TWA: Time Weighted Average

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

## **Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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