

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: TITAN POTASSIUM NITRATE

Recommended Use of the Chemical and Restriction on Use: Fertiliser additive

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
15/16 Princess Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 . HAZARDS IDENTIFICATION

Hazardous Nature:



flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.

Label Elements

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidiser.

Precautionary Statements

- P221 Take any precaution to avoid mixing with combustibles.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P220 Keep/Store away from clothing/combustible materials.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

7757-79-1	potassium nitrate	 Ox. Sol. 2, H272	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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

(Contd. on page 2)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

Product Name: TITAN POTASSIUM NITRATE

(Contd. of page 1)

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Coarse water spray.**Specific Hazards Arising from the Chemical:**

Due to its oxidising properties, the presence of this product in a fire is likely to intensify the fire

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 respiratory protection if needed (P1 dust mask), safety glasses, elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. Evacuate all non-essential personnel from affected area. Do not breathe dust. Avoid dust generation.

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 collect product into labelled container. If unable to reuse or recycle, dispose of waste materials according to applicable local and state government regulations. Avoid dust generation.

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 tightly closed when not in use. Protect from moisture. Keep away from reducing agents, zinc, tin, aluminium and their alloys and combustible materials.

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:**

If use conditions generate dust use P1 dust mask. 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:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

(Contd. on page 3)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

Product Name: TITAN POTASSIUM NITRATE

(Contd. of page 2)

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Prills or crystals
Colour:	White
Odour:	Odourless
Odour Threshold:	Not determined.
pH-Value (50 g/l) at 20 °C:	5.5-8.0
Melting point/Melting range:	337 °C
Initial Boiling Point/Boiling Range:	400 °C (at 100kPa)
Flash Point:	Not applicable.
Flammability:	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	>400 °C
Explosion Limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour Pressure:	Negligible at normal ambient temperatures.
Relative Density at 20 °C:	2.11 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water at 20 °C:	320 g/l

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: Moisture.

Incompatible Materials: Reducing agents, zinc, tin, aluminium and their alloys, combustible materials

Hazardous Decomposition Products: Nitrogen and potassium compounds.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****7757-79-1 potassium nitrate**Oral LD₅₀ 3750 mg/kg (rat)**Acute Health Effects**

Inhalation: May cause mild respiratory irritation.

Skin: Not expected to be a hazard.

Eye: Not expected to be a hazard.

Ingestion:

May cause nausea, diarrhoea, vomiting. Ingestion of large quantities may cause methaemoglobin anaemia with headaches, drop in blood pressure, breathing difficulties, cramps, heartbeat irregularities and cyanosis (blue colouration of the blood).

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: No sensitising effects known.

(Contd. on page 4)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

Product Name: TITAN POTASSIUM NITRATE

(Contd. of page 3)

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

12 . ECOLOGICAL INFORMATION

Ecotoxicity: This product is unlikely to cause adverse effects in the environment.**Aquatic toxicity:****7757-79-1 potassium nitrate**

EC50 / 24 h 490 mg/L (daphnia)

Persistence and Degradability: No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** 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	1486
Proper Shipping Name	POTASSIUM NITRATE
Dangerous Goods Class	5.1
Packing Group:	III
Marine pollutant:	No
Hazchem Code:	1Z
Special Provisions:	Not applicable
Limited Quantities:	5 kg
Packagings & IBCs - Packing Instruction:	P002, IBC08, LP02
Packagings & IBCs - Special Packing Provisions:	B3
Portable Tanks & Bulk Containers - Instructions:	T1, BK1, BK2

(Contd. on page 5)



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.05.2014

Revision: 23.05.2014

Product Name: TITAN POTASSIUM NITRATE

(Contd. of page 4)

Portable Tanks & Bulk Containers - Special Provisions:

TP33

15 . REGULATORY INFORMATION**Australian Inventory of Chemical Substances:**

7757-79-1 | potassium nitrate

16 . OTHER INFORMATION**Creation Date:** 23.05.2014**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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)

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"

The information contained in this material 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.