

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 13.01.2015

Revision: 13.01.2015

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: TITAN FERROUS SULPHATE HEPTA SOLUBLE**Other Means of Identification:** Inorganic salt**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:

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)



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Signal Word Warning**Hazard Statements**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterisation: Substances**CAS No. Description**

7782-63-0 iron(II) sulfate (1:1) heptahydrate

(Contd. on page 2)



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Product Name: TITAN FERROUS SULPHATE HEPTA SOLUBLE

(Contd. of page 1)

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 if symptoms occur.

Ingestion:

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

Symptoms Caused by Exposure:

Inhalation: Mild irritation.

Skin Contact: Irritation, itchiness and redness.

Eye Contact: Irritation, stinging and reddening of eyes and watering which may become copious.

Ingestion: Ingestion of larger amounts may cause burning sensation and reddening of skin in mouth and throat, nausea, vomiting, diarrhoea, and black stools. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning has been recorded.

5 . FIRE FIGHTING MEASURES

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

Specific Hazards Arising from the Chemical:

Fire decomposition products from this product are not expected to be hazardous or harmful.

This product does not burn. There is no risk of an explosion from this product under normal circumstances if it is involved in a 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 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:

(Contd. on page 3)

SAFETY DATA SHEET

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Revision: 13.01.2015

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(Contd. of page 2)

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, preferably below 30 °C. Keep container dry and tightly closed when not in use. Protect from moisture and water. Keep away from strong reducing agents, zinc, tin, aluminium and their alloys.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**7782-63-0 iron(II) sulfate (1:1) heptahydrate**

NES	TWA: 1 mg/m ³ as Fe
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Engineering Controls:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

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.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Crystalline solid.
Colour:	Blue-green
Odour:	Odourless
Odour Threshold:	Odourless
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	Decomposes before boiling at 100kPa at above 300 °C.
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	>300 °C
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Negligible at normal ambient temperatures.
Density:	Not determined.
Relative Density at 20 °C:	~1.9 g/cm ³

(Contd. on page 4)

SAFETY DATA SHEET

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(Contd. of page 3)

Vapour Density: No information available
Evaporation Rate: No information available
Solubility in Water at 50 °C: 48.6 g/100g

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 and water.

Incompatible Materials: Strong reducing agents, zinc, tin, aluminium and their alloys.

Hazardous Decomposition Products:

Fire decomposition products from this product are not expected to be hazardous or harmful.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: Causes skin irritation, itchiness and reddening of contacted skin.

Eye: Causes eye irritation, stinging and reddening of eyes and watering which may become copious.

Ingestion:

Harmful if swallowed. Ingestion of larger amounts may cause burning sensation and reddening of skin in mouth and throat, nausea, vomiting, diarrhoea, and black stools. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning has been recorded.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

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:

Severe or chronic ferrous sulfate poisonings may damage blood vessels and cause liver damage.

Existing Conditions Aggravated by Exposure:

Pre-existing eye and skin disorders and impaired liver, kidney or respiratory function.

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No adverse ecological effects are expected.

Aquatic toxicity: No adverse ecological effects are expected.

Persistence and Degradability: No information available

(Contd. on page 5)



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(Contd. of page 4)

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:

7782-63-0 iron(II) sulfate (1:1) heptahydrate

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

Not a scheduled poison.

16 . OTHER INFORMATION

Creation Date: 13.01.2015**Prepared by:** MSDS.COM.AU Pty Ltdwww.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)

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"

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