

# **MATERIAL SAFETY DATA SHEET**

# **PRODUCT: TRACE ELEMETS**

**Date of Issue:** 1 DEC 2016 **Valid until:** 1 DEC 2021 **GHS** Format

#### 1. IDENTIFICATION OF MATERIAL & SUPPLIER

**Product (material) Name:** Manutec Trace Elements mix - soluble

Other names: None

Manufacturer's code: MTO5006/MTO5006B/MTO2506

**Recommended use:** as a trace element fertiliser to correct number of trace elements

deficincies.

# **Manufacturer/Supplier Information:**

Name: MANUTEC PTY LTD

**Address:** 30 Jonal drive, Cavan, South Australia 5094 **Telephone No:**+61-8-8260 2277 **Fax:**+61-8-8260 2399

Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

#### 2. HAZARDS IDENTIFICATION

**Poisons Schedule:** None Scheduled

#### **Hazard Classification:**

Hazard Classification: Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

# **Hazard Categories:**

Acute Toxicity (Oral) - Category 4 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A

**Pictograms:** 



Signal Word: Warning

**Hazard Statements:** 

H302 Harmful if swallowed.H315 Causes skin irritation.H319 Causes serious eye irritation.



# **Precautionary Statements:**

Prevention P264 Wash hands thoroughly after h	revention P264	Wash hands thoroughly	v after handling.
---	----------------	-----------------------	-------------------

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

P273 Avoid release to the environment.

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

protection as appropriate depending on volume of handling.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P321 Specific treatment (see First Aid Measures on Safety

Data Sheet).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Disposal P501 Dispose of contents/container in accordance with local /

regional / national /international regulations.

#### **National Transport Commission (Australia)**

#### **Dangerous Goods Classification**

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Proportion
471-34-1	<=30%
10034-99-8	<=30%
15708-41-5	<=10%
7782-63-0	<=8%
7785-87-7	<=10%
7733-02-0	<=5%
7758-99-8	<=5%
1303-96-4	<=0.8%
10102-40-6	<=0.1%
	471-34-1 10034-99-8 15708-41-5 7782-63-0 7785-87-7 7733-02-0 7758-99-8 1303-96-4

# 4. FIRST AID MEASURES

#### Description of necessary measures according to routes of exposure

**Swallowed** Do not induce vomiting. Give 1-2 glasses of water to a

conscious victim. Never give anything by mouth to an

unconscious victim. Get medical attention



Eye Immediately flush eyes with running water for at least 20

minutes holding eyelids open. Get medical attention.

**Skin** Immediately wash with plenty of soap and water. Get medical

attention if irritation occurs.

**Inhaled** Move victim to fresh air. If not breathing, give artificial

respiration. Get medical attention.

**Advice to Doctor** Treat symptomatically based on individual reactions of patient

and judgement of doctor.

**Medical Conditions Aggravated by Exposure** 

No information available on medical conditions which are

aggravated from exposure to this product

#### 5. FIRE FIGHTING MEASURES

#### **General Measures**

Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

**Flammability Conditions** Product is a non-flammable solid.

**Extinguishing Media** Water, dry powder, foam, carbon dioxide.

#### **Hazardous Products of Combustion**

Heating to dryness will produce obnoxious and toxic fumes.

#### **Special Fire Fighting Instructions**

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment

# **Personal Protective Equipment**

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point

Lower Explosion Limit

Upper Explosion Limit

Auto Ignition Temperature

Hazchem Code

No Data Available
No Data Available
No Data Available

#### 6. ACCIDENTAL RELEASE MEASURES

#### **General Response Procedure**

Avoid accidents, clean up immediately.

Increase ventilation. Avoid generating dust. Stop leak if safe to do so.

Isolate the danger area. Use clean, non-sparking tools and equipment.

#### **Clean Up Procedures**

Use Gloves and protective gear as per section 8 and shovel into suitable container for disposal.

**Decontamination** Rinse affected area with plenty of water.



#### **Environmental Precautionary Measures**

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

## 7. HANDLING AND STORAGE

**Handling** Ensure an eye bath and safety shower are available and

ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale

productdust/fumes.

**Storage** Store in a cool, dry, well-ventilated area. Keep

containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of

Dangerous Goods By Road and Rail.

**Container** Store in original packaging as approved by manufacturer

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**General** No exposure standard has been established for this

product. However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and

3mg/m3 (for respirable dust).

**Exposure Limits** No Data Available

Biological Limits No information available on biological limit values for

this product.

#### **Personal Protection Equipment**

RESPIRATOR: wear an effective dust mask where dusts/vapours are generated

EYES: Safety glasses as necessary (AS1336/1337).

HANDS: Wear rubber or plastic gloves while handling (AS2161).

CLOTHING: When handling large quanities and in a factory production atmosphere,

use Long-sleeved protective clothing and safety footwear (AS3765/2210).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline Powder

pH 6-8

Vapour Pressure
Relative Vapour Density
Boiling Point
Melting Point
Freezing Point
Solubility
No Data Available
No Data Available
No Data Available
No Data Available
soluble in water



Specific Gravity

Flash Point

Auto Ignition Temp

Evaporation Rate

Bulk Density

No Data Available

No Data Available

No Data Available

No Data Available

# 10. STABILITY AND REACTIVITY

**General Information** Product is a non-flammable solid.

**Chemical Stability** Product is stable under normal conditions of use, storage

and temperature.

**Conditions to Avoid** Avoid excessive heat, generating dust, direct sunlight,

moisture and high temperatures.

Materials to Avoid Incompatible with strong oxidising agents, bases,

mineral acids and sources of ignition.

Hazardous Decomposition Product Not been reported/assessed

**Hazardous Polymerisation** Hazardous Polymerisation has not been

reported.

# 11. TOXICOLOGICAL INFORMATION

**EyeIrritant** Eye irritation may result.

**Ingestion** Swallowing can result in nausea, vomiting, diarrhoea,

and gastrointestinal irritation. Ingestion of large

quantities can be dangerous and harmful, no sufficient

data available.

**General Information** 

Acute toxicity: TDLo (man, oral): 183 mg/kg/4h-1

LDLo (mouse, oral): 5000 mg/kg bw

Skin: Not sensitizing
Carcinogen Category No Data Available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity**Persistence/Degradability
Mobility
No Data Available
Not biodegradable.
miscible in water.

**Environmental Fate** Do NOT allow product to reach waterways, drains and

sewers

Bioaccumulation Potential No information available on bioaccumulation for this

product.

**Environmental Impact** No Data Available

# 13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.



#### 14. TRANSPORT INFORMATION

#### **Land Transport (Australia)**

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

# **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) **Dangerous Goods Classification** 

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

#### 15. REGULATORY INFORMATION

**General Information** No Data Available **Poisons Schedule (Aust)** Not scheduled

# **National/Regional Inventories**

Australia (AICS) Not Listed

#### 16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### STATEMENT OF DISCLAIM:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.

No expressed or implied warranties are given other than those implied mandatorily by Federal, State or Territory Legislation.