

# Safety Data Sheet

### 1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

#### 1.1 Product identifier

TX Trace

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses Professional use as fertiliser

### 1.3 Details of the supplier of the safety data sheet

Terralift Australia, 11 Wainwright Rd, Athol, QLD 4350, Australia

T: 1300551944 F: (02)49135419 E: admin@terralift.com.au

### 1.4 Emergency telephone number

Tel: 1300551944

# 2. HAZARDS IDENTIFICATION

### 2.1 Poisons schedule: Not scheduled

#### 2.2 Hazard classification:

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Skin corrosion or irritation – Category 2 (H315)

Eye irritation – Category 2 (H319)

Chronic aquatic toxicity – Category 3 (H412)

### 2.3 Label elements

Precautionary statements:

Pictogram(s)

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Signal word: WARNING

Hazard statements: H315: Causes skin irritation

H319: Causes serious eye irritation

H412: Harmful to aquatic life with long lasting effects P264: Wash hands/skin thoroughly after handling

P280: Wear protective gloves/eye protection

P302+P352: IF ON SKIN: wash with plenty of water

P362+P364: Take off contaminated clothing and wash before reuse 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

P273: Avoid release to the environment

P391: Collect spillage

P501: Dispose of contents/container in accordance with local

regulations.

Other hazards: None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:

Substance	CAS number	Hazard classification (GHS):	Weight %
Iron Sulphate	7782-63-0	Skin Irrit. 2 (H315)	10-25%
		Eye Irrit. 2 (H319)	
		Acute Tox. 4 (H302)	
Manganese Sulphate	10034-96-5	STOT(RE) (H373)	5-10%
		Aquatic Chronic 2 (H411)	
Copper Sulphate	7758-99-8	Acute Tox. 4 (H302)	1-3%
		Skin Irrit. 2 (H315)	
		Eye Irrit. 2 (H319)	
		Aquatic Chronic 1 (H410)	
Zinc Sulphate	7446-19-7	Acute Tox. 4 (H302)	1-3%
		Eye Dam. 1 (H318)	
		Aquatic Acute 1 (H400)	

#### 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Show this SDS to the doctor in attendance.

Inhalation Move the exposed person to fresh air at once. Get medical attention.

When breathing is difficult, properly trained personnel may assist

affected person by administering oxygen.

Skin Contact: Remove affected person from source of contamination. Get medical

attention promptly if symptoms occur after washing. Remove contaminated clothes and rinse skin thoroughly with water.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

Ingestion: Do not induce vomiting. Never make an unconscious person vomit

or drink fluids. Remove victim immediately from source of

exposure. Drink plenty of water and seek medical aid immediately.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Irritation of nose, throat and airway. Prolonged or frequent

inhalation of vapours in high concentrations may cause permanent

damage to the nervous system, including the brain.

Ingestion May cause gastrointestinal irritation, diarrhoea, nausea, vomiting. Skin contact May cause skin irritation/eczema (the hazard is low for usual

industrial handling).

Eye contact May cause blurred vision and serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

# 5. FIRE FIGHTING MEASURES

# 5.1 Extinguishing media

Suitable extinguishing media

Use water, water spray, dry powder, foam or carbon dioxide.

Unsuitable extinguishing media

High volume water jet. Extinguishers of the chlorinated hydrocarbon variety are not recommended as toxic products may be produced by the decomposition of the extinguishing medium when it comes into

contact with hot manganese compounds.

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: When heated and in case of fire, irritating vapours/gases may be

formed. In case of fire, toxic gases may be formed.

### **5.3** Advice for fire fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Coordinate fire extinguishing measures to fire in surrounding area. Keep run-off water out of sewers and water sources. Dike for water control.

#### 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Provide adequate ventilation. Use protective gloves, goggles and

suitable protective clothing. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in section 8.

# **6.2 Environmental precautions**

Prevent material or washings entering water courses.

# 6.3 Methods and material for containment and cleaning up

Methods for containment Sweep up spills carefully to minimise dust/spread of material.

Methods for clean-up Transfer to heavy-duty plastic bags or drums and keep safe for

Transfer to heavy-duty plastic bags or drums and keep safe for disposal. If material is uncontaminated reuse as recommended for

product.

### **6.4 Reference to other sections**

Section 8 and 13

### 7. HANDLING & STORAGE

### 7.1 Precautions for safe handling

General occupational hygiene advice Handle in accordance with good industrial hygiene and safety

practice. Use personal protection recommended in Section 8. When

using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions 
Store in original containers, tightly closed in a secure, well

ventilated area.

Packaging materials: 20kg polythene bags

Other advice For quality reasons store under dry conditions, out of direct sunlight,

do not double stack pallets of product. Shelf life 2 years. Partly used

bags should be closed well.

7.3 Specific end use(s)

Specific uses Fertiliser. Follow label instructions.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA (8hr)		STEL	
		ppm	$mg/m^3$	ppm	$mg/m^3$
Iron sulphate	SWA (AUS)	-	1	-	-
Manganese sulphate	SWA (AUS)	-	1	-	-
Copper sulphate	SWA (AUS)	-	1	-	-
Zinc sulphate	SWA (AUS)	-	-	-	-

### 8.2 Exposure controls

# Personal protective equipment

Eye / face protection: At high dust levels, wear safety glasses.

Skin and body protection: When using large quantities or where heavy contamination is likely,

wear coveralls.

Respiratory protection: Where an inhalation risk exists, wear a Class P1 (Particulate)

respirator.

Hand protection: Individuals with sensitive skin should consider wearing PVC or

rubber gloves.

Work / Hygienic practices: Wash hands before eating, drinking or smoking.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be

contained. Do not allow into any sewer, on the ground or into any

body of water.

### 9. PHYSICAL & CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance: Homogenous granule, brown

Odour: Light odour pH: 4.0-4.5

Melting point/freezing point

Boiling point/range

Flash point:

Evaporation rate

Flammability (solid, gas):

Vapour pressure:

Vapour density

No data available

Not applicable

Not applicable

Not applicable

Not applicable

Specific gravity: 760g/l

Water solubility:
Solubility(ies)
Partition coefficient
Auto ignition temperature
Decomposition temperature
No data available
No data available
No data available

Explosive properties Does not present explosion hazard (based on data of ingredients)

Oxidising properties: No data available

9.2 Other information

Not applicable

# 10. STABILITY & REACTIVITY

# 10.1 Reactivity

Not reactive.

#### 10.2 Chemical stability

Stable under normal conditions

# 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Water, moisture. Toxic gases are generated when heated.

# 10.5 Incompatible materials

Strong acids. Strong oxidising substances. Powdered metal. Inorganic peroxides.

# 10.6 Hazardous decomposition products

Sulphurous gases (SOx). Oxides of Manganese.

# 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

### Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

In case of ingestion: May cause discomfort if swallowed.

In case of skin contact:

May cause skin irritation.

In case of inhalation: Prolonged inhalation of high concentrations may damage respiratory

system.

In case of eye contact: May cause irritation to the eyes

# Symptoms related to the physical, chemical and toxicological characteristics:

No information available

#### Acute toxicity

ATEmix (oral) = 2,174mg/kg (calculated)

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Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ferrous sulphate	657-4390 mg/kg (rat)	>1992 mg/kg (rat)	No relevant data
FeSO <sub>4</sub> .7H <sub>2</sub> O			available
Manganese sulphate	2150 mg/kg (rat)	No relevant data	No relevant data
MnSO <sub>4</sub> .H <sub>2</sub> O		available	available
Zinc sulphate H <sub>2</sub> O	No relevant data	No relevant data	No relevant data
4S.H <sub>2</sub> O.Zn	available	available	available
Copper sulphate	482 mg/kg (rat)	>2000 mg/kg (rat)	No relevant data
CuSO <sub>4</sub> .5H <sub>2</sub> O			available

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation No information available Serious eye damage/eye irritation No information available

Respiratory or skin sensitisation
Germ cell mutagenicity
No information available
No information available
No information available
Reproductive toxicity
No information available
STOT-single exposure
No information available
STOT-repeated exposure
No information available
Aspiration hazard
No information available

Absence of specific data

No test data is available for the mixture as a whole. Data on ingredient substances has been provided where relevant.

### 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

Unlikely to accumulate in the environment (based on ingredient properties)

# 12.3 Bio accumulative potential

Low potential (based on ingredient properties)

# 12.4 Mobility in soil

Low potential for adsorption (based on ingredient properties)

### 12.5 Results of PBT and vPvB assessment

No information available

### 12.6 Other adverse effects

No information available

#### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product / packaging disposal Dispose of waste and packaging through a waste disposal contractor

in accordance with local laws.

#### 14. TRANSPORT INFORMATION

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

14.1 UN-No:Not regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Hazard groupNot regulated14.5 Packing groupNot regulated14.6 Marine pollutantNot regulated14.7 Environmental hazardsNot regulated

**14.8 Special provisions for user** None

#### 15. REGULATORY INFORMATION

15.1: General informationNo data available15.2 Poisons scheduleNot scheduled15.3 Australian Inventory of ChemicalNot listed

**Substances (AICS)** 

#### 16. OTHER INFORMATION

# Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate CAS: Chemical Abstracts Service

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

OEL: Occupational Exposure Limit STEL: Short-term exposure limit TWA: Time Weighted Average

Classification procedure - Calculation method

- Test data
- Expert judgment and weight of evidence determination

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