

# Safety Data Sheet according to WHS Regulations

Printing date 24.01.2022 Revision: 24.01.2022

### 1 Identification

Product Name: Optifert High Manganese Liquid Fertiliser

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Professional fertiliser.

### **Details of Manufacturer or Importer:**

Titan Ag Pty Ltd Princes Street Marina Suite 15/16 Princes Street Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

### 2 Hazard(s) Identification

### **Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

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

The product is not classified, according to the Globally Harmonised System (GHS).

### Signal Word None

**Hazard Statements None** 

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures** 

**Description:** Mixture: consisting of the following components.

Hazardous Components: None

Non Hazardou	s Components:	
CAS: 598-62-9	Manganese carbonate	50-65%
CAS: 56-81-5	Glycerol	2.5-3%

### **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 with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

### Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

### Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: No adverse health effects expected.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

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### **Medical Attention and Special Treatment:**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### **5 Fire Fighting Measures**

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

### **Specific Hazards Arising from the Chemical:**

Hazardous combustion products include nitrogen oxides, metal oxide/oxides, ammonia. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

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

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### **6 Accidental Release Measures**

### Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

### **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 absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Decontaminate spill area with detergent and water.

### 7 Handling and Storage

### **Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

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 direct sunlight. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep away from strong oxidising agents, contamination by any source including metals, dust and organic materials. Keep away from calcium hypochlorite or sodium hypochlorite.

### 8 Exposure Controls and Personal Protection

# Exposure Standards: CAS: 56-81-5 Glycerol WES TWA: 10 mg/m³ CAS: 7439-96-5 Manganese WES STEL: 3\*\* mg/m³ TWA: 1\* 1\*\* mg/m³ as Mn; \*dust and compounds;\*\*fume

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### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

### **Respiratory Protection:**

Wear an approved respirator if ventilation is insufficient. See Australian Standards AS/NZS 1715 and 1716 for more information.

### Skin Protection:

Chemical-resistant, impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

### **Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### **9 Physical and Chemical Properties**

Appearance:

Form: Liquid
Colour: Pink
Odour: Odourless

Odour Threshold: No information available

pH-Value (100 g/l) at 20 °C: 9
Melting point/freezing point: -5 °C
Initial Boiling Point/Boiling Range: 100 °C

Flash Point:

Flammability:

Auto-ignition Temperature:

Decomposition Temperature:

No information available

No information available

No information available

**Explosion Limits:** 

Lower:No information availableUpper:No information available.Vapour Pressure:No information available

**Density:** 1.827 g/cm<sup>3</sup>

Vapour Density:No information availableEvaporation Rate:No information available

Solubility in Water: Not relevant/applicable due to nature of the product. Miscible with

water.

**Partition Coefficient (n-octanol/water):** No information available **Viscosity:** 1,500 - 2,500 mPa·s

### 10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

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

Conditions to Avoid: Protect from direct sunlight.

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### **Incompatible Materials:**

Keep away from strong oxidising agents, contamination by any source including metals, dust and organic materials. Keep away from calcium hypochlorite or sodium hypochlorite.

Hazardous Decomposition Products: Nitrogen oxides, metal oxide/oxides, ammonia.

### 11 Toxicological Information

### **Toxicity:**

LD50/LC5	LD50/LC50 Values:			
CAS: 598-	-62-9 Man	ganese carbonate		
Oral	LD50	>5,000 mg/kg (rat)		
CAS: 56-8	CAS: 56-81-5 Glycerol			
Oral	LD50	12,600 mg/kg (rat)		
Inhalation	LC50/6 h	4 mg/l (rat)		

### **Acute Health Effects**

**Inhalation:** May cause respiratory irritation. **Skin:** No adverse health effects expected.

Eye: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

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.

### **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

### Additional toxicological information:

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

### 12 Ecological Information

### **Ecotoxicity:**

Aquatic toxicity: No data available on finished product.

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

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Other adverse effects: No further relevant 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** 

ADG, IMDG, IATA Not regulated

**Proper Shipping Name** 

ADG, IMDG, IATA Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

### 15 Regulatory Information

### **Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule: Not a scheduled poison.

### 16 Other Information

Date of Preparation or Last Revision: 24.01.2022

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

### Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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 SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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