

Opti-Trace Manganese

Hybrid-Ag Pty Ltd

Catalogue number: N/A

Version No: 0.1

Issue date: 06/01/2025

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

| | |
|-------------------------------|-------------------------------------|
| Product name | Opti-Trace Manganese |
| Synonyms | N/A |
| Other means of identification | Liquid Fertiliser, Manganese Liquid |

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

| | |
|--------------------------|------------------------------|
| Relevant identified uses | Fertiliser, soil stimulation |
|--------------------------|------------------------------|

Details of the manufacturer/importer

| | |
|-------------------------|--|
| Registered company name | Hybrid-Ag Pty Ltd |
| Address | 52 Buckler Road, Wangaratta, VIC 3677 |
| Telephone | (03) 5722 7555 |
| Mobile | |
| Website | www.hybridag.com.au |
| Email | admin@hybridag.com.au |

Emergency telephone number

| | |
|-----------------------------------|----------------------------|
| Association / Organisation | Poisons Information Centre |
| Emergency telephone numbers | 13 1126 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

| | |
|-----------------------------------|----------------|
| Poisons Schedule | Not Applicable |
| GHS Classification ^[1] | Not Applicable |

Label elements

| | |
|--------------------|----------------|
| GHS label elements | Not applicable |
|--------------------|----------------|

| | |
|-------------|-----------------------|
| SIGNAL WORD | NOT APPLICABLE |
|-------------|-----------------------|

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

| | |
|------|-------------------------------|
| P102 | Keep out of reach of children |
|------|-------------------------------|

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

| | |
|------|---|
| P501 | Dispose of contents and containers in accordance with local regulations |
|------|---|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

All ingredients are non-hazardous

Mixtures

| CAS No | % (weight) | Name |
|--------|------------|--|
| N/A | 100 | Proprietary Liquid Nutrient Fertiliser Mix |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| | |
|--------------|--|
| Eye Contact | If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | If skin contact occurs with concentrate: Flush skin and hair with running water. Seek medical advice in event of irritation. |
| Inhalation | Not applicable |
| Ingestion | Do NOT induce vomiting. Immediately give a glass of water. If large quantities of the product are ingested, contact a Poisons Information Centre or a doctor immediately. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

| | |
|--|---|
| | There is no restriction on the type of extinguisher which may be used |
|--|---|

Special hazards arising from the substrate or mixture

| | |
|----------------------|------------|
| Fire incompatibility | None known |
|----------------------|------------|

Advice for firefighters

| | |
|-----------------------|--|
| Fire Fighting | Non-combustible Alert Fire Brigade and tell them location and nature of hazard. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing |
| Fire/Explosion Hazard | Decomposition may produce hazardous vapours of Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Ammonia |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|--------------|---|
| Minor Spills | Sweep up & dispose of. |
| Major Spills | Sweep into a centralised location and place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. Prevent by any means available any spillage entering a watercourse. |
| | Personal protective equipment advice is contained in Section 8 of this SDS |

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| | |
|-------------------|--|
| Safe handling | Wear suitable protective clothing depending on the circumstances as per section 8. Do not mix with other chemicals unless expressly recommended by the manufacturer. Always store in original container. |
| Other information | |

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Suitable container | 1L drum, 5L drum, 20L drum, 200L drums, 1000L IBC's, bulk storage containers or tanks |
| Storage incompatibilities | None known |

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION


Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | Ensure adequate ventilation |
| Personal protection |  Wear gloves, dust mask, long sleeves, long pants & steel cap boots |
| Eye and face protection | Wear gloves, dust mask, long sleeves, long pants & steel cap boots |
| Hands/feet protection | Wear gloves, dust mask, long sleeves, long pants & steel cap boots |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--|----------------------------|---|----------------|
| Appearance | Dark brown to black liquid | | |
| Physical state | Liquid | Specific Gravity (Water = 1) | 1.34 |
| Odour | Low to no odour | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | 6-9 | Decomposition temperature | Not Applicable |
| Melting point / freezing point (°C) | Not Applicable | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Applicable | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Fully Miscible | pH as a solution | 6-9 |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | See section 7 |
| Chemical stability | Unstable in the presence of incompatible materials. |
| Possibility of hazardous reactions | None known |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Ammonia |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|--------------|---|
| Inhaled | Mists and spray from the product may cause irritation to the nose, throat and respiratory system with effects including: coughing and discomfort. |
| Ingestion | May cause irritation to the mouth, throat and stomach. |
| Skin Contact | May cause skin irritation |
| Eye | May cause irritation. |
| Chronic | Extended period of contact may cause irritation in sensitive individuals. |

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

Bio accumulative potential

| Ingredient | Bioaccumulation |
|------------|---------------------------------------|
| | No Data available for all ingredients |

Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | No Data available for all ingredients |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| Product / packaging disposal | Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations. |
|------------------------------|---|
|------------------------------|---|

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | No |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

Not Applicable

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources.

The SDS 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.

Definitions and abbreviations

| | |
|----------|---|
| PC-TWA: | Permissible Concentration-Time Weighted Average |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit |
| IARC: | International Agency for Research on Cancer |
| ACGIH: | American Conference of Government Industrial Hygienists |
| STEL: | Short Term Exposure Limit |
| TEEL: | Temporary Emergency Exposure Limit |
| IDLH: | Immediate Danger to Life or Health Concentrations |
| OSF: | Odour Safety Factor |
| NOAEL: | No Observed Effects Level |
| TLV: | Threshold Limit Value |
| LOD: | Limit Of Detection |
| OTV: | Odour Threshold Value |
| BCF: | Bio Concentration Factors |
| BEI: | Biological Exposure Index |

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End of SDS