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# Material Safety Data Sheet

## IDENTIFICATION:

Product Name:	Zinc Manga Iron Mate
Other Name:	Zinc Manga Iron Mate
UN Number:	N/A
Hazchem Code:	N/A
Dangerous Goods Class:	N/A
Packaging Group:	N/A
Manufacturer's Product Code:	ZnMnFe Mate
Use:	Liquid foliar fertiliser, plant growth stimulant and soil conditioner

## PHYSICAL DESCRIPTION/PROPERTIES:

Appearance:	Yellow coloured liquid (no odour)
pH:	2.7
Solubility in Water:	100%
Density (kg/l):	1.26
Volatiles (% w/w):	Not relevant
Flash Point (C):	Not relevant
Flammability Limits:	Non flammable water based liquid
Ingredients:	Water Zinc Manganese Iron Potassium fulvate
Proportion:	100%

## **HEALTH HAZARD INFORMATION:**

### Health Effects:

#### Acute:

- Swallowed: Small quantities not harmful.
- Eye: Mild eye irritation.
- Skin: Mild irritant, possible skin reddening.
- Inhaled: Mild irritant, can only occur when spraying a diluted solution.

#### Chronic:

There have been no reports in the literature of health effects in workers arising from long term exposure to this substance.

#### First Aid:

- Eye: Immediately irrigate with water or neutral saline solution. Seek medical attention.
- Skin: Wash off with water immediately.
- Inhaled: Not a volatile liquid, if inhaled, blow out and seek medical attention.

#### First Aid Facilities:

Water or neutral saline solution for eye wash.

#### Advice to Doctor:

Treatment would be supportive, as there is no specific antidote.

#### Reactivity Data:

Stable liquid with no hazardous decomposition products.  
No hazardous polymerisation.

## **PRECAUTIONS FOR USE:**

#### Personal Protection:

Face shields recommended during handling of product. Overalls and gloves recommended when handling liquid. Wash hands after handling product.

#### Ventilation Requirement:

Not a volatile liquid, no harmful gases given off. Natural ventilation is usually adequate. Do not spray in an enclosed environment.

## **SAFE HANDLING INFORMATION:**

Storage and Transport:	Store and transport in sealed containers below 40°C and above -10°C.
Spills and Disposal:	Dilute and wash away with large amounts of water.
Fire Explosion/Hazard:	Non flammable water-based product, it can only ignite if dried to a powder.
Asphyxiation Hazard:	Not a volatile liquid. No harmful gases emitted unless dried powder is ignited in large amounts.

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