

# Safety Data Sheet according to Directive 91/155/EEC

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**MICROLIFIC MNEDTA**

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Revision 27.02.2003

(dd.mm.yyyy)

## 1. Identification of the Substance/Preparation and the Company/Undertaking

Product name	MICROLIFIC MNEDTA
Chemical identification	Metal chelate
CAS Number	Preparation
Use	Micronutrient
Producer/Supplier	CIBA SPECIALTY CHEMICALS PLC CHARTER WAY  MACCLESFIELD CHESHIRE SK10 2NX GREAT BRITAIN
Phone Number	+44 (0)1625 665000
Telefax	
Emergency Phone Number (24h)	+44 (0)1625 616008

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## 2. Composition/Information on Ingredients

The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directive.

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## 3. Hazards Identification

Not classified as hazardous according to the EU directives.  
May cause slight skin irritation, especially with repeated or prolonged exposure.  
May cause some irritation to the respiratory system if dust is inhaled.  
May cause irritation to the respiratory system, if mists or sprays may be inhaled.

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## 4. First Aid Measures

### Skin contact

Wash off immediately with soap and plenty of water.

### Eye contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.

### Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

### Ingestion

Do not induce vomiting. Give nothing by mouth in cases of unconsciousness or convulsion. Check for breathing and pulse, if present, place in the recovery position and obtain medical attention. Do not give mouth to mouth resuscitation. Use resuscitation bag and mask. If conscious rinse out the mouth with water. Give 1 pint (600 ml) of water to drink immediately and repeated drinks of water at a rate of a cupful (1/3 pint/200 ml) every 10 minutes. Call a physician immediately.

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## 5. Fire-Fighting Measures

### Suitable extinguishing media

Water spray

### Extinguishing media which must not be used for safety reasons

High volume water jet

### Special protective equipment for firefighters

As for all fires involving chemicals: chemical protection suit, suitable gloves, boots and self contained breathing apparatus.

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### Combustion products

Oxides of carbon

## 6. Accidental Release Measures

### Personal precautions

Use suitable protective equipment.

### Environmental precautions

Do not flush into surface water, sanitary sewer or ground water system.

### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

### Handling

Avoid dust formation

### Storage

Protect from wet and humid conditions. Store away from food, drink and animal feedstuffs.

## 8. Exposure Controls / Personal Protection

### Exposure limit(s)

*CIEL-TWA Ciba internal exposure limit (8 hour time weighted average)*

not tested

### Respiratory protection

Air respirator. Required if occupational exposure limits may be exceeded.

### Hand protection

Rubber or plastic gloves.

### Eye protection

Safety glasses with side-shields.

### Skin and body protection

Dustproof protective suit

## 9. Physical and Chemical Properties

<b>Form</b>	Dry flowable granules	
<b>Colour</b>	light pink	
<b>Odour</b>	faint	
<b>Melting/freezing temperature</b>	not tested	
<b>Softening point</b>	not applicable	
<b>Boiling point/range</b>	not applicable	
<b>Relative density</b>	not tested	
<b>Bulk density</b>	0.8 g/ml	Typical Value
<b>Flash point</b>	not tested	
<b>Assessment for ignition temperature</b>	May smoulder. Dust may form explosive mixture in air.	
<b>Oxidising properties</b>	not tested	
<b>Assessment for water solubility</b>	soluble	
<b>Solubility</b>	not tested	
<b>Vapour pressure</b>	not tested	
<b>Partition coefficient; Log Pow</b>	not applicable	
<b>pH-value 2 % in water</b>	7	Typical Value
<b>Dynamic Viscosity</b>	not tested	
<b>Lower Explosion Limit</b>	not applicable	
<b>Upper Explosion Limit</b>	not applicable	
<b>Explosive properties</b>	not applicable	
<b>Evaporation rate</b>	not applicable	
<b>Vapour density</b>	not tested	

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**10. Stability and Reactivity**

<b>Conditions to avoid</b>	Extremes of temperature. Avoid wet or humid conditions.
<b>Materials to avoid</b>	Strong bases and oxidising agents.
<b>Hazardous decomposition products</b>	Combustion may result in the formation of: Oxides of carbon

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**11. Toxicological Information**

<b>Acute oral toxicity</b> <i>Rat</i>	LD50 > 2000 mg/kg	By analogy to similar products
<b>Acute dermal toxicity</b>	not tested	
<b>Acute Inhalation Toxicity</b>	not tested	
<b>Acute eye irritation/corrosion</b>	not irritant	Conventional Method
<b>Acute dermal irritation/corrosion</b>	not irritant	Conventional Method
<b>Acute skin sensitisation</b>	not tested	

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**12. Ecological Information**

<b>Acute toxicity to fish</b> <i>96 h</i>	LC50 > 100 mg/l	By analogy to similar products
<b>Acute toxicity to daphnia</b>	not tested	
<b>Acute toxicity to bacteria</b>	not tested	
<b>Acute toxicity to algae</b>	not tested	
<b>Biodegradability</b>	not tested	

**Ecotoxicity Assessment**

Not expected to be harmful to the aquatic environment.

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**13. Disposal Considerations**
**Waste from residues / unused products**

Local regulations must be observed.

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## Contaminated packaging

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

## 14. Transport Information

Flash point	not tested
ADR/RID	Class: Free
IMO	Class: Free
ICAO	Class: Free

## 15. Regulatory Information

Classification	Classification not required
Additional labeling information	Safety data sheet available for professional user on request.

## 16. Other Information

R-phrases from chapter 2	-
Essential changes	Section 3 ; Section 9 ; Section 15 ; Section 16

### **Important**

THIS MATERIAL IS NOT INTENDED FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, BODY FLUIDS OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED, UNLESS THE FINISHED PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH NATIONALLY AND INTERNATIONALLY APPLICABLE SAFETY TESTING REQUIREMENTS. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR SUCH USES.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.