



**Nutech Biosciences, Inc.**  
537 Fitch Street • Oneida, NY 13421  
Work: 315-505-6500 • Cell: 315-251-4324  
www.nutechbiosciences.com

## Material Safety Data Sheet

### Mineralate-Mn16

(Manganese Amino Acid Chelate)

#### A. GENERAL INFORMATION

Product Name:

Mineralate Manganese16

Chemical Name:

AAFCO definition #57.231

IFN 6-26-150

Manganese Amino Acid Chelate

FORMULA:

Mixture/compound

CONTACT:

NuTech Biosciences, Inc.

537 Fitch Street

Oneida, NY 12421 USA NY 13057 USA

PHONE NUMBER:

+1-315-505-6500

ChemTrec

+1-800-424-9300

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#### B. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT:

Manganese Sulphate

C.A.S NUMBER:

7785-87-7

PERMISSIBLE AIR CONCENTRATION:

N/A

#### C. FIRST AID MEASURES

INGESTION:

If large amounts are ingested, get medical attention, induce vomiting.

INHALATION:

Remove to fresh air or give oxygen.

EYE CONTACT:

If eye irritation exists, flush thoroughly with plain water.

SKIN CONTACT:

If skin irritation exists, wash with soap and water.

#### D. HAZARDS INFORMATION

HEALTH EFFECTS:

INHALATION:

May cause irritation of the nasal membranes and upper respiratory tract.

INGESTION:

Ingestion of large amounts may be harmful

SKIN:

Normally no harmful effects.

EYES:

Contact may cause irritation.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED:

Respiratory problems.

USUAL CHRONIC TOXICITY:

None.

FIRE AND EXPLOSION DATA:

FLASH POINT:

OPEN CUP  CLOSED CUP

Non-flammable

AUTO IGNITION TEMPERATURE:

N/A

FLAMMABLE LIMITS IN AIR

(% BY VOL.):

N/A

#### E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

Use NIOSH-MSHA approved dust respirator if irritation exists or if dust exceeds the nuisance level of 10 mg. per cubic meter.

EYES AND FACE:

Glasses, goggles, or Face shields are recommended if irritation exists

HANDS, ARMS,

AND BODY:

No Irritation expected.

OTHER CLOTHING

AND EQUIPMENT:

None.

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**F. PRECAUTIONS/ PROCEDURES:**

FIRE EXTINGUISHING AGENTS RECOMMENDED: As appropriate for surrounding material.

FIRE EXTINGUISHING AGENTS TO AVOID: None.

SPECIAL FIRE FIGHTING PRECAUTIONS: None.

**ENGINEERING CONTROLS:**

Use containment and/or local exhaust ventilation to control dust

USUAL CHRONIC

TOXICITY:

None.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED:**

Respiratory problems.

NORMAL HANDLING:

Avoid breathing dust. Maintain good housekeeping practices.

**STORAGE:**

Keep Dry.

**SPILL OR LEAK:**

Dry sweeping may be used.

SPECIAL PRECAUTIONS/ PROCEDURES/ LABEL INSTRUCTIONS:

Keep dry. Avoid contact with eyes. Avoid breathing dust.

Wash thoroughly after handling.

Keep dust to a minimum.

**PERSONAL HYGIENE:**

Good personal hygiene reduces the possibility of any irritations.

Washing clothing with a good detergent reduces the possibility of permanent stains.

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**G. PHYSICAL DATA****APPEARANCE AND ODOR:**

Mineralate Manganese16 is light brown colored fine powder with no discernible odor.

MATERIAL IS (AT NORMAL CONDITIONS):	% VOLATILES BY VOLUME (At 20° C):	VAPOR PRESSURE	B.P. (°C)	SPECIFIC GRAVITY: (H <sub>2</sub> O=1)	Ph
<input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	N/A	N/A	N/A	N/A	5-7
<input checked="" type="checkbox"/> SOLID			M.P. (°C)		
			N/A		

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**H. REACTIVITY DATA****STABILITY**

UNSTABLE

STABLE

**CONDITIONS TO AVOID:**

Keep dry to avoid mold.

**INCOMPATIBILITY (MATERIALS TO AVOID):**

None.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

None.

**HAZARDOUS POLYMERIZATION:**

MAY OCCUR

WILL NOT OCCUR

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**I. ENVIRONMENTAL****EPA HAZARDOUS SUBSTANCE?**

YES  NO

IF SO,

REPORTABLE

QUANTITY:

**WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS):**

Landfill or maybe used as trace-mineral fertilizer in single applications not exceeding 40 lbs. per acre.

**RCRA STATUS OF UNUSED MATERIAL:**

Not listed

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**J. REFERENCES****PERMISSIBLE CONCENTRATION:**

REFERENCES:

N/A

**HAZARD INFORMATION REFERENCES:**

None. Use as directed on manufacturer's literature.

**GENERAL:**

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**K. ADDITIONAL INFORMATION**